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DEPARTMENT OF PHYSICS AND GEOPHYSICAL SCIENCES SCHOOL OF SCIENCES OLD DOMINION UNIVERSITY NORFOLK, VIRGINIA

Technical Report PGS-AP-75-11

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PLYMOUTH PARK, CHESAPEAKE, VIRGINIA AIR QUALITY EXPERIMENT JUNE 20 - JULY 11, 1975

Prepared by G.E. Copeland

Conducted by the Old Dominion University Atmospheric Research Group in conjunction with the National Aeronautics and Space Administration Langley Research Center and the Virginia State Air Pollution Control Board

Supported by NASA Grant NGL 47-003-067

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Submitted by the Old Dominion University Research Foundation Norfolk, Virginia 23508

September 1975

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INTRODUCTION

The Old Dominion University Atmospheric Research Group in conjunction with NASA Langley Research Center and the Air Pollution Control Board of Virginia conducted a detailed field study of the various air pollutants in the South Norfolk Section of the City of Chesapeake during the last half of June and the first half of July 1975. This document reports the data collected by the ODU Atmospheric Research Group, its calibration and processing procedures.

The results of this 22-day experiment are in the attached appendices which contain:

- A) The detailed data for 18 environmental parameters for every hour (528) of the experiment;
- B) A tabular listing showing the frequency of occurrence of the various values;
 - C) The graphical histograms of the important parameters;
- D) The detailed meteorological data for the region for the duration of the experiment; and
- E) The listings of the computer programs used in the processing of the data.

then to a span source, so that continuous calibration of the instruments was obtained. All instruments were initially calibrated in the ODU Air Standards Laboratory.

Data from all instruments was level shifted and placed on several strip chart recorders (continuous X-T recorders and multi-channel recorders).

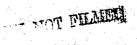
All reported data reflects an averaging procedure. Strip chart records were broken down into 1-hour segments. Each hour of data was graphically averaged to yield "hourly averages." These were recorded for each instrument. A similar procedure was used to record zeroes and spans introduced into the data set. A time series least squares analysis technique was used to minimize electronic drift of instruments by having a time dependent true zero for each instrument. (See Appendix E for details)

Finally, the data set (18 x 528 = 9504 data points + 9504 zeroes) were placed in mass storage of the ODU DEC-10 computer system and a series of programs were written to convert these chart readings into engineering units, and to output the data stream in a readable format (See Appendix E for the computer programs).

CALIBRATION EQUATIONS:

All data, R, was recorded on a strip chart and was in the range 0 to 1000. (R is the Reading on this scale.) Each instrument was calibrated in the Standards Laboratory and calibration was maintained by the data collection procedure. All calibration equations reflect nonweighted least squares fitting techniques. Let

 $\Delta R = R(Data) - R(Zero)$



Then, most instruments' calibration equations are of the form:

$$y(ppb) = A \times (\Delta R) + B$$

Below is a list of instruments and their calibration characteristics: (ρ is the linear correlation coefficient)

- 1. Hydrocarbons: Meloy Flame Ionization Detection $y(ppb) = 0.01058665 \times (\Delta R) 1.3500$ $\rho = 0.9999289$
- 2. Ozone: Ethylene Ozone Chemilumenscence $y(ppb) = .407802 \times (\Delta R) + 0.4035995$ p = 0.998665
- 3. NO: Bendix NOX Meter $y(ppb) = 0.5 \times (R)$
- 4. NO2: Bendix NOX Meter $y(ppb) = 0.5021172 \times (R) + .8705642$
- 5. Reduced Sulfur: Flame Photometric Instrument (Meloy and Scrubber)

$$y(ppb) = 4.542258 \times (\Delta R)^{0.5085551}$$

- 6. Total Sulfur: Meloy Flame Photometric $y(ppb) = 1.1711214 \times (\Delta R)^{0.9272089}$
- 7. Temperature

$$T(^{\circ}C) = 0.03504743 \times (R) + 5.5053$$

8. Solar Radiation $y(\underline{\text{cal}}) = (7.941E-3) \times (R)$ cm^2min

9. Wind speed and direction (directly from charts in mph and compass points)

In all cases, ΔR , (Reading - ZERO), were obtained by fitting a linear trend equation to the Zero readings to remove electronic drifts.

COMPUTER DATA REDUCTION

All readings for each instrument were manually averaged by human data loggers to yield accurate hourly averages, spans and zeroes. These data were put on to separate paper tape files for entrance into the DEC-10 system. Once inputted into this time sharing system, the zero files of the various instruments were processed by a sliding zero program to yield files with zeroes for each of the 528 hours. These zero files were then subtracted from the appropriate data reading files to yield AR files for all instruments. These AR files were broken into five (5) files.

The major computer program is named PLMOUT (Plymouth Output) and is written in BASIC-10. This program executes in a time shared environment so that the analyst can control its development. A flow diagram is shown in Figure 1 which indicates the data flow and calculation techniques. Output consists of 66 pages (each 66 lines) which constitutes Appendix A.

The preliminary statistical analysis of the data is handled by the program HISTO (flow diagram in Figure 2). This program opens the data file BERKDT written by PLMOUT. It reads 18 sub files, finds the minimum values, maximum value, range, average value of non-zero entries, lists the frequencies of observations and plots a histogram of the data where each x is 1 hourly reading. The output from HISTO constitutes Appendix B and C.

METEOROLOGICAL DATA

Meteorological data (Appendix D) is presented for each day of the field operation, utilizing two formats. The first format consists of hourly observations of sky conditions, visibility and restrictions (i.e., haze, fog, showers, thundershowers, etc.), temperature, and wind direction (measured from true north) and speed, as observed at the Naval Air Station (NGU), Norfolk. Additionally, observations of general weather, temperature, and wind direction/speed, made by Portsmouth Gas Company (PGCO - located approximately 5½ miles from the van site) are listed on an hourly basis, plus 6 wind directions and general weather from Lake Kilby Pumping Station, and the average hourly temperature and wind condition, as recorded by the van.

The second format consists of sectional maps of the Tidewater area, valid at 0000Z (8 PM EST) and 1200Z (8 AM EST), with observed weather conditions plotted for Patrick Henry (PHF), Langley AFB (LFI), Norfolk International Airport (ORF), Oceana NAS (NTU), Norfolk NAS (NGU), PGCO, Lake Kilby, and the ODU van plus rawinsonde data (vertical sounding of temperature and wind) for Wallops Island (WAL). An estimate of the 2,000 foot (2K) wind at the van site is reflected on each map.

APPENDIX A

Data Output for Plymouth Park Experiment
Old Dominion University Atmospheric Research Group

This section is paged 1-1, 1-2, 1-3, 2-1, 2-2, 2-3 since each day has 3 pages of output (-1, -2, -3). All data are in engineering units. All negative values indicate missing data (-9 or -9000).

	OZONE	INTHE UTER	(1 <u>-</u> (11(11)	
	<u></u>	TOTAL H.C.	HETHANE	H.C
di di			JUNE 20 ,	1975
**		ATHOSPHERIC	KEREAKCH GKOO	

	570VF	TOTAL H.C.	HETHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME EDT
TIME EDT	OZONE		PPB	PPB	PPB	РРВ	Hours
Hones	PPB	PPB		-9	18	5	0 - 1
o - 1	-9	-9	-9		e de la companya de	5	1 - 2
1 - 2	-9	-9	-9	-9	3	5	2 - 3
2 - 3	-9	· -9	-9	- 9			3 - 4
3 - 4	-9	-9	- 9.	-7	-9	5	N.
4-5	-9	-9	9	-9	4	5	4 5
5 - 6	-9	-9	- 9	-9	7	5	5 - 6
6 - 7	-9	-9	9	-9	7 .	5	6-7
7 – 8	-9	-9	- 9	-9	7	5 -	7 - 8
	-9	-9	 9	-9	0	5	8 - 9
8 - 9		2249	1646	603	4	5	9 - 10
9 - 10	44	2207	1677	529	Q	5	10 - 11
10 - 11	60	· · · · · · · · · · · · · · · · · · ·	1466	497	0	5	11 - 12
11 - 12	59	1963	1402	423	Ö	5	12 - 13
12 - 13	46	1825	and the second	3B1	o	5	13 - 14
13 - 14	50	1804	1423	201	0		14 - 15
14 - 15	60	1593	1391		•	5	15 - 16
15 - 16	53	1582	1370	211		5	16 - 17
16 - 17	57	1794	1487	307	0	5	17 - 18
17 - 18	6 5	1624	1381	243	o		18 - 19
18 - 19	56	1646	1360	285	0	5	19 - 20
19 - 20	61	1730	1360	370	0	5	•
20 - 21	61	-9	-9	- 9	o	5	20 - 21
21 - 22	59	-9	-9	-9	O	5	21 - 22
22 - 23	50	- 9	-9	-9	0	5	22 - 23
###C			-9	-9	0	5	23 - 24

JUNE 20 , 1975

	•		DOME 20 F	1773		_ +	•
TIME EDT	NO	NO2	ABS. HUM.	REL. HUM.	TEMP	TEMP	TIME
Hour	PPB	PPB	פיאיש	z	c ·	. F	EDT HOUR
0 - 1	-9	23	20.3	84	25.8	78.5	0 - 1
1 - 2	-9	24	20.94	87	25.8	78.4	1 - 2
2 - 3	9	24	21.49	90	25.6	78.1	2 - 3
3 - 4	-9	20	21.24	90	25.4	77.7	3 - 4
4 - 5	-9	20 *	20.4	88	25.1	77.2	4 - 5
5 - 6	-9	25	19.93	88	24.7	76.4	5 - 6 .
6-7	1	26	20.85	88	25.5	77.9	6-7
7 - 8	0	21	22,76	88	27.1	80.7	7 - 8
8 - 9	2	30	22,97	83	28.3	82.9	8 - 9
9 - 10	2	17	21,72	77	28,6	83.5	9 - 10
10 - 11	1	13	20,99	73	29	84.2	10 - 11
11 - 12	-9	13	21.48	73	29.4	84.9	11 - 12
12 - 13	-9	11	22,22	73	30	86.1	12 - 13
13 - 14	9	11	22.03	71 •	30.4	84.7	13 - 14
14 - 15	0	11	21.84	70	30.5	86.9	14 - 15
15 - 16	-9	. 13	20.81	69	29.9	85.B	15 - 16
16 - 17	-9	13	20,13	67	29,8	85.6	16 - 17
17 - 18		13	19.16	66	29.2	84.5	17 - 18
18 - 19		13	19.56	70	28.5	83,2	18 - 19
19 - 20	-9	18	17.76	70	26.7	80.1	19 - 20
20 - 21	-9	18	17.31	76	24.8	76.6	20 - 21
21 - 22	-9	18	17.04	81	23.4	74.1	21 - 22
22 - 23	-9	19	17,49	원소	22.8	73	22 - 23
23 - 24	-9	35	17.81	87	22.5	72.5	23 - 24

JUNE 20 , 1975

TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME EDT
HOURS	LANGLIES	MILES /HR	DEGREES	STINU	KH**-1	UG/H**3	HOURS
0 - 1	0	1	135	0.3	0.024	9	0 - 1
1 - 2	0	1	135	0.3	2.30000E-2	8	1 - 2
2 - 3	0	1	135	0.3	0.028 • `	10	2 - 3
3 - 4	0	1.	135	0.3	2.30000E-2	8	3 - 4
4 - 5	0	1	135	0.3	0.02	7	4 - 5
5 - 6	0	1	90	0.3	0.017	6	5 - 6
6 - 7	0	0.5	45	0.3	0.016	6	6 - 7
7 - B	0	0.5	0	0.3	0.025	9	7 - B
8 - 9	0	1	0	0.3	0.047	17	8 - 9
9 - 10	0	3	0	0+3	0.071	26	9 - 10
10 - 11	0	5	0	0.2	0.055	20	10 - 11
. 11 - 12	o	5	0	0.2	0.05	18	11 - 12
12 - 13	•	3	0	0.2	0.045	16	12 - 13
13 - 14	0	3	0	0.2	0.045	16	13 - 14
14 - 15	0	2 .	0	0.1	0.05	18	14 - 15
15 - 16	i	4	0	0.1	0.047	17	15 - 16
16 - 17	0.8	5	0	0-2	0.032	12	16 - 17
17 - 18	0.6	4	0	0.2	3,90000E-2	14	17 - 18
18 - 19	0.3	4	45	0.1	0.032	12	18 - 19
19 - 20	0.1	2	45	0.1	0.031	11	19 - 20.
20 - 21	0	3	90	0.1	0.032	12	20 - 21
21 - 22	0	2	90	0.1	2.20000E-2	8	21 - 22
22 - 23	o	0.5	135	0.1	0.019	7	22 - 23
23 - 24	•	0.5	180	0.1	0.018	6	23 - 24

JUNE 21 , 1975

TIHE	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULF	UR RED. SULFUR	TIME
EDT HOURS	PPB	PPB	PPB	PPB	PPB	РРВ	EDT HOURS
0 - 1	20	-9	- 9	-9	7	5	0 - 1
1 - 2	-9	-9	-9	-9 .	7	5	1 - 2
2 - 3	-9	-9	-9	-9	0	5	2 - 3
3 - 4	-9 ·	-9	9	-9	ਤ	5	3 - 4
4 = 5	-9	-9	-9	-9	4	5	4 - 5
5 - 6	8	-9	-9	-9		5 1.7	5 - 6
6 - 7	22	- 9	-9	-9	0	5	6 - 7
7 - 8	38	-9	-9	-9	0	5	7 - 8
8 - 9	62	~ 9	-9	-9	0	· 5	8 - 9
9 - 10	66	-9	-9	-9	0	5	9 - 10
10 - 11	59	~9	-9 .	-9	0	5	10 - 11
11 - 12	35	2005	1571	434	0	5	11 - 12
12 - 13	35	1614	1541	52	O	s	12 - 13
13 - 14	36	1804	1646	158	o	5	13 - 14
14 - 15	37	1910	1741	149	0	5	14 - 15
15 - 16	37	1974	1794	179	o 1	5	15 - 16
16 - 17	31	2005	1825	179	0	5	16 - 17
17 - 18	39	1974	1836	137	0	5	17 - 18
18 - 19	37	1953	1783	169	•	5	, 18 - 19
19 - 20	32	1889	1698	190	0	5	19 - 20
20 - 21	31	1804	1561	243	0	5	20 - 21
21 - 22	10	1889	1593	296	0	. 5	21 - 22
22 - 23	6	1847	1550	296	0	5	22 - 23
23 - 24	-9	2037	. 1688	349	0	5	23 - 24

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

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JUNE	21	. y	1	975

			ODINE ZI ,	7475			
TIME EDT	חא	ND2	ABS. HUM.	REL. HUM.	TEMP	· TEMP	TIME
AUOH	PPB	PPB	G/M°3	Z	C	.	EDT HOUR
0 - 1	-9	40	18.19	80	22.7	72.8	0 - 1
1 - 2	0	44	18.44	94	22.2	71.9	1 - 2
2 - 3	0	41	18.09	97	21,3	70.3	2 - 3
उ - 4	6	32	17,62	98	20.6	69,2	उ – 4
4 - 5	16	43	18.2	98	21.2	70.2	4 - 5
5 - 6	0	37	18.57	78	21.6	70.8	5 - 6
6-7		25	19.5	98	22.4	72.3	6 - 7
7 - 8	-9	13	19,51	70	23.9	75	7 - 8
8 - 9	-9	13	17,37	77	24.6	76.3	8 - 9
9 - 10	-9	10	16.96	73	25.1	77+2	9 - 10
10 - 11	-9	io	16,92	71	25.4	78.1	10 - 11
11 - 12	-9	9	16.51	69	25.7	78,2	11 - 12
12 - 13	-9	∽ 8	16.1	66	26	78.8	12 - 13
13 - 14	0	8	15,92	64	26.4	79+4	13 - 14
14 - 15	-9	6	15.55	62	24+5	79.7	14 - 15
15 - 16	o	9	14.97	59	26.7	80.1	15 - 16
16 - 17	-9	8	13.66	54	26	78.8	16 - 17
17 - 18	0	ద	14.01	58	25.8	78.5	17 - 18
18 - 7	-9	7	13.14	56	25.3	77+6	. 18 - 19
19 - 20	0	8	12.36	57	23.9	75	19 - 20
20 - 21	-9	15	11.8	61	21.9	71.4	20 - 21
21 - 22	-9	. 23	12.3	68	20.8	69.4	21 - 22
22 - 23	9	25	12.73	73	20.1	68+2	.22 - 23
23 - 24	o	28	13.16	75	20.2	68.4	23 - 24
						. 7	

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

JUNE	21	1975

		4.6	JUNE 21 4	1975			
TIME EDT HOURS	SOLAR RAD LANGLIES	WIND SPEED MILES /HR	WIND DIR. DEGREES	C O H UNITS	B SCAT :	MASS LOAD	TIME EDT HOURS
0 - 1	• 0	O	180	-9	0.018	6	0 - 1
1 - 2	•	0	180	9	0.017	6	1 - 2
2 - 3	•	0	180	9	0.019	7	2 - 3
3 - 4	0	0.	180	<u>-</u> 9	0.02	7	3 - 4
4 - 5	•	0	135	, '9 '	0.018	ć	4 - 5
5 - 6	0	.0	135	-9	0.018	6	5 - 6
6-7	0.1	o (135	-9	2.30000E-2	ą.	6 - 7
7 - 8	0.4	1	135	-9	0.031	11	7 - 8
8 = 9	. O • &	3	90	-9	0.034	12	8 9
9 - 10	0.8	ភ	90	-9	0.036	13	9 - 10
10 - 11	1.1	5	90	-9	0.034	12	10 - 11
11 - 12	1.2	6	9 0	∸9	0.034	12 .	11 - 12
12 - 13	1.3	6	90	 9 .	0.029	11	12 - 13
13 - 14	1.3	6	90	-9	0.027	10	13 - 14
14 - 15	1	á	90	- 9 .	0.025	9	14 - 15
15 - 16		5	90	-9	0.025	9	15 - 16
16 - 17	0.9	6	90	-9	0.024	9	16 - 17
17 - 18	0+6	٥ .	90	-9	2.30000E-2	8	17 - 18
18 - 19	०+उ	5	90	-9	2.30000E-2	8	18 - 19
19 - 20	0.1	4	90	-9	2.30000E-2	8	19 - 20
20 - 21	0	, 3	90	-9	0.018	4	20 - 21
21 - 22	•	0.5	90	-9	0.018	- 6	21 - 22
22 - 23	o	0.5	90 '	- 9	2.30000E-2	8	22 - 23
23 - 24	O .	0.5	90	-9	0.018	۵	23 - 24

JUNE 22 , 1975

	•	•	•	JUNE 22 y	1975			. 4
	TIHE EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4 \	TOTAL SULFU	R RED. SULFUR	TIME
	HOURS	PPB	PPB	РРВ	PFB	PPB	PPB	EDT HOURS
٠.	0 - 1	4	1751	1476	 275	0	5	0 - 1
	1 - 2	1	- 9	9	-9	0	5	1 - 2
	2 - 3	-9	-9	-9	-9	0	5	2 - 3
	3 - 4	-9 .	1900	1624	275	o	5	3 – 4
	4 - 5	1	1857	1529	328	7	5	4 - 5
	5 - 6	2	1836	1497	338 ,	0	5	5 - 6
	6 - 7	8	1709	1434	275	•	5	6-7
	7 - 8	22.	1508	1296	211	0	5.	7-8
	8 - 9	23	1518	1339	179	Q	5	8 - 9
	9 - 10	28	1593	1434	158	0	5 .	
	10 - 11	31	1688	1518	169	0	5	9 - 10
	11 - 12	26	1698	1529	169	0	5	10 ~ 11
	12 - 13	28	1825	1624	201	0	5	11 - 12
	13 - 14	28	1762	1603	158	0	- 9	12 - 13
	14 - 15	43	1762	1571	190	13	~9	13 - 14
	15 - 16	56	1836	1646	190	13	-9	14 - 15
	16 - 17	47	2619	1931	688	13	-9	15 - 16
	17 - 18	31	1646	1476	169	13	-9	16 - 17
	18 - 19	37	1656	1508	148	13	-9	17 - 18
	19 - 20	39	1720	1518	201	. 13	9	18 - 19
	20 - 21	33	1709	1466	243	13	 9	19 - 20
	21 - 22	31	1688	1434	254	13	-9	20 - 21
	22 - 23	30	-9	-9	-9	13	-9	21 - 22 22 - 23
	23 - 24	27	ms9	-9	-9	13	-9	23 - 24
		and the second second					₹ 4	ZG - Z4

JUNE 22 , 1975

TIME EDT	חמ	NO2	ABS, HUM,	REL. HUM.	TEMP	. TEMP	TIHE
HOUR	PPB	PPB	G/M^3	Z.	C	F	EDT HOUR
0 - 1	-9	20	13.23	.77	19.9	67.8	0 - 1
1 - 2	-9	26	12.98	79	19,1	66.4	1 - 2
2 - 3	-9	28	12.96	85	17.8	. 64.1	2 - 3
3 - 4 .	-9	25	13.38	90	17.4	63.4	3 - 4
4 - 5	9	18	13.98	95	17.2	63	4 - 5
5 - 6	-9	.20	14.27	96	17.4	63.4	5 - გ
6 - 7	-9	18	15.74	97	18.9	66	6 - 7
7 ~ 8	-9	10	16.6	89	21.3	70,3	7 - 8
8 - 9	- ∳	8 19 10	16.91	78	23.9	75	8 - 9
9 - 10	9	8	15.88	70	24.7	76.5	9 - 10
10 - 11	-9	5	15.58	62	26.5	79.8	10 - 11
11 - 12	-9	6	15.26	59	27.1	80.7	11 - 12
12 - 13	- 9		15.15	ភ ព	27.2	81	12 - 13
13 - 14	-9	6	15.77	57	28.3	82.9	13 - 14
14 - 15	-9	6	15.5	56	28.3	82.9	14 - 15
15 - 16	-9	8	16.26	56	. 29.2	84.5	15 - 16
16 - 17	-9	8	15.23	54	28.6	83.5	16 - 17
17 - 18	-9	8	15.06	56	27.8	B2	17 - 18
18 - 19	-9	8	14.86	58	26.9	80+4	18 - 19
19 - 20	-9	10	13,47	58	25,1	77.2	19 - 20
20 - 21	9	15	12,13	61	22.4	72.3	20 - 21
21 - 22	-9	14	10.7	56	21.7	71.1	21 - 22
22 - 23	-9	14	13.2	73	20.8	69.4	22 - 23
23 - 24	-9	15	13.19	78	19.6	67.3	23 - 24

JUNE 22 , 1975

** 1/p		10 Miles 1 A Miles 10 Miles	WOULD TE A	17/0			- N
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	СОН	B SCAT	MASS LOAD	TIME
HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/M**3	EDT HOURS
0 - 1	Ò	1	90	-9	2.30000E-2		
1 - 2	0	0	90	9	0.02		0 - 1
2 - 3	0		90	-9	0.017	7	1 - 2
3 - 4	0	0.	90	9	2.30000E-2	å	2 ~ 3
4 - 5	0	0	90	9		8	3 - 4
5 – 6	O	•	90.	-9	0.02	7	4 - 5
6-7	0.1		135		0.018	, 6	5 - გ
7 - B	0.4	2.		-9	0.02	7	ሪ - 7
8 - 9	0,6		135	-9	2.30000E-2	. g	7 ~ 8
9 - 10	0.9	2	135	-9	2.30000E-2	8	8 - 9
10 - 11	1,2	1	135	-9	2.30000E-2	8	9 - 10
11 - 12		2	135 •	9	0.02	7	10 - 11
12 - 13	1,2	2 Y	180	-9	0.02	7	11 - 12
	1.2	2	180	-9	0.02	7	12 - 13
13 - 14	1.1	3	135	-9	0.027	10	13 - 14
14 - 15	1.2	. 2	135	0.1	2.30000E-2	8	14 - 15
15 - 16	1.2	.2	135	0.1		. 0	
16 - 17	0+9	5	135	0.1	0.026	9	15 - 16
17 - 18	0.7	6	135	0.1	2.30000E-2	8	16 - 17
18 - 19	0.4	6	135	0+3	0+02	7	17 18
17 - 20	0.1	4	135	0.3	0.019		18 - 19
20 - 21	0.1	3	135 -	-9		. 7	19 - 20
21 - 22	0	3	135	- - 9	0.02	7	20 - 21
22 - 23	0	ਤ ਤ	135		0.019	7	21 - 22
23 - 24	0	2	135	-9	0.019	7	22 - 23
				-9	0.018	6	23 - 24

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PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

JUNE 23 , 1975

TIME	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME
EDT HOURS	PPB	PPB	PPB	PPB	РРВ	PPB	EDT HOURS
0 - 1	20	-9	-9	-9	13	-9	0 - 1
1 - 2	17	-9	9	-9	13	-9	1 - 2
2 - 3	22	9	-9	-9	13	-9	2 - 3
3 - 4	22	-9	-9	 9	13	-9	3 - 4
4 - 5	14	-9	-9	-9	13	-9	4 - 5
5 — გ	11	-9	~ 0	-9	13	-9	5 - 6
6 - 7	11	-9	-9	-9	13	- 9	6 - 7
7 - 8	7	-9	-9	- 9	13	-9	7 - 8
8 - 9	8	-9	- 9	9	13	-9	8 - 9
9 - 10	21	1730	1413	317	13	-9	9 - 10
10 - 11	36	1900	1571	3 28	13	-9	10 - 11
11 - 12	33 ·	1709	1497	211	0	6	11 - 12
12 - 13	24	394	259	137	0	5	12 - 13
13 - 14	37	2736	2471	264	14	5	13 - 14
14 - 15	34	2440	2260	179	0	-9	14 - 15
15 - 16	33	2545	2302	243	o	- -9	15 - 16
16 - 17	35	3953	2768	1185	o	-9	16 - 17
17 - 18	24	4387	3244	1143	0	5	17 - 18
18 - 19	18	3181	2545	635	0	5	18 - 19
19 - 20	43	2937	2408	529	0	5	19 - 20
20 - 21	62	-9	-9	-9	ø	5	20 - 21
21 - 22	62	-9	-9	-9 <	0	5	21 - 22
22 - 23	66	9289	-9000	-9000	0	5	22 - 23
23 - 24	62	3731	2662	1069	0	5	23 - 24
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PLYHOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

			JUNE 23 ,	1975	$\{j^{(k)}_{i,j},\ldots,j^{(k)}_{i,j}\}$		
TIME EDT	מא	NO2	ABS. HUM.	REL. HUM.	TEMP .	TEMP	TIME
Hour	FPB	PFB	6/473	%	C	F	EDT HOUR
0 - 1 .	-9	15	13.63	84	18.9	66	0 - 1
1 - 2	-9	15	14,13	88	18.7	65.7	1 - 2
2 - 3	-9	11	13.89	90	18.1	64.5	2 - 3
3 - 4	-9	10,	13.68	92	17.4	63.4	3 - 4
4 - 5	-9	13	13.54	94	16.9	62.4	4 - 5
5 - 6	-9	17	13.46	96	16.4	61.6	5 - 6
6 - 7	1	18	16.37	9 7	19.6	67,2	6 - 7
7 - 8	8	16	18.19	92	22.3	72.1	7 - 8
8 - 7	5	19	: 17,14	76	24.6	76.3	8 - 9
9 - 10	1.	10	14.26	62	25	76.9	9 - 10
·10 - 11	-9	15	14.6	57	26.9	80+4	10 - 11
11 - 12	-9	8	15.46	55	28.6	83.4	11 - 12
12 - 13 •	-9	10	14.67	53	28.3	82.9	12 - 13
13 - 14	-9	8	16.6	53	30.6	87	13 - 14
14 - 15	-9	8	16.81	52	31.2	88+1	14 - 15
15 - 16	-9	9	16.43	51	31.1	88	15 - 16
16 - 17	-9	8	19.23	62	30.4	86.7	16 - 17
17 - 18	1	8	15.68	54	29.2	84.5	17 - 18
18 - 19	5	12	15.65	57	28.1	82.4	18 - 19
19 - 20 .	5	13	14.93	60	26.4	79.4	19 - 20
20 - 21	1	15	14.01	64	24.1	75.3	20 - 21
21 - 22	10	20	13.93	70	22.4	72.3	21 - 22
22 - 23	11	26	13,67	73	21.3	70+4	22 - 23
23 - 24	10	18	13.45	77	20.4	68.7	23 - 24

JUNE 23 , 1975

TTHE	001.5		WORKE 25)	17/0			
TIME EBT	SOLAR RAD	WIND SPEED	WIND DIR.	COH	B SCAT	MASS LOAD	TIME
Hours	LANGLIES	MILES /HR	DEGREES	STINU	КМ**-1	UG/M**3	EDT HOURS
0 - 1	0	0.5	180	-9	0.019	7	0 - 1
1 - 2	0	0.5	180	-9	0.02	7	1 - 2
2 - 3	0	`.·O•5	180	-9	0.02	7	2 - 3
3 - 4	C -	0.5	180	-9	0.019	7	3 - 4
4 - 5	0	0.5	180	-9	0.018	6	4 - 5
చ్ ∽ ద	0	0.5	180	-9	0.018	6	5 – გ
ა - 7	0.1	0.5	180	-9	0.018	6	6-7
7 – 8	0.4	0.5	180	-9	0.02	• 7	7 - 8
8 - 9	0.6	2	225	-9.	2.30000E-2	В	8 - 9
9 - 10	0.8	2	225	-9	0.025	9	9 - 10
10 - 11	1	2	225	-9	0.026	9	10 - 11
. 11 - 12	1.2	3	225	-9	0.026	9	11 - 12
12 - 13	1.3	3	180	-9	0.029	10	12 - 13
13 - 14	1,3	3	180	-9	0.031	11	13 - 14
14 - 15	1.3	4	135	-9	0.031	11	14 - 15
15 - 16	1.1	3	135	-9	0.031	11	15 - 16 ·
16 - 17	0.9	4	135	9	0.036	13	16 - 17
17 - 18	0.6	5	135	-9	0.029	11	17 - 18
18 - 19	0.3	5	135	-9	2.30000E-2	В	18 - 19
19 - 20	0+1	4	135	-9	0.02	7	19 - 20
20 - 21	0	2	135	-9	0.019	7	20 - 21
21 - 22	0	. 2	135	-9	2.30000E-2	8	21 - 22
22 - 23	o	1	135	-9	0.034	12	22 - 23
23 - 24	0	1	180	-9	0.02	7	23 - 24
ر البراد المحدد الم	يشبهان در در و وسخوان در استان در همان از در ماهمان در	an in in distribution and a second second	And the same and opposed his beautiful to the same of	Annual Section of the Real Property Sections and the Section of th			

JUNE 24 , 1975

TIME EUT	OZONE	TOTAL H.C.	METHANE	H.CCH4		FUR RED. SULFU	EDT
HOURS	PPB	PFB	PPB	PPB	PPB	PPB	HOURS
0 - 1	69	3593	2916	677	0	5	0 - 1
i - 2	84	3943	3011	931	0	5	1 - 2
2 - 3	82	3488	2704	783	0	5	2 - 3
3 - 4	85	3297	2409	688	0	5	3 - 4
4 - 5	84	-9	-9	-9	O	5	4 - 5
5 - 6	84	-9	-9	- 9	0	5	5 — ბ
6 - 7	84	2979	2662	317	0	5	6-7
7 - 8	54	3096	2715	. 381	0	-9	7 - 8
8 - 9	51	2683	2365	317	0	9	8 - 9
9 - 10	43	2725	2365	359	40	-9	9 - 10
10 - 11	42	2609	2207	402	28	6	10 - 11
11 - 12	44	2704	2270	434	51	6	11 - 12
12 - 13	47	2905	2472	412	48	6	12 - 13
13 - 14	46	3265	2694	571	28	6	13 - 14
14 - 15	54	3773	2958	815	11	á	14 - 15
15 - 16	52	4133	3064	1069	٥	6	15 - 16
ia - 17	51	4324	3096	1228	0	6	16 - 17
17 - 18	52	3858	2875	943	0	6	17 - 18
18 - 19	41	4038	3011	1026	0	6	.18 - 19
19 - 20	ਤ4	-9	-9	-9	0	6	19 - 20
20 - 21	17	-9	-9	-9	O	6	20 - 21
21 - 22	12	-9	-9	-9	0	6	21 - 22
22 - 23	13	-9	-9	-9	0	6	22 - 23
23 - 24	10	-9	-9	-9	0	6	23 - 24

JUNE 24 , 1975

TIME EDY	סא	NO2	ABS. HUM.	REL. HUM.	TEMP	: TEMP	TIME
HOUR	RPR	PPB	G/M ⁻ 3	<i>z</i> .	C	F	EDT HOUR
0 - 1	10	18	13,81	80	17.9	67.9	0 - 1
1 - 2	10	18	13.58	82	19.2	66.6	1 - 2
2 - 3	10	23	12,93	87	17,4	63.4	2 - 3
3 - 4	10	18	13.44	90	17.5	63.5	3 - 4
4 - 5	8	18	13.54	93	17.1	62.7	4 - 5
5 - 6	9	18	13.26	94	16.5	-61.8	5 - 6
6 - 7	7	20	15.07	96	18.3	6 5	6 - 7
7 - 8	20	30	18.01	90	22.5	72.5	7 - 8
8 - 9	1 4 5 5	20	16.64	76	24.1	75.3	8 - 9
9 - 10	6	16	15.71	6 5	25.8	78.5	9 - 10
10 - 11	2	10	16.46	63	27.2	81	10 - 11
11 - 12	-9	-9	17,58	60	29.3	84.8	11 - 12
12 - 13	-9	-9	17,39	55	30.7	87.3	12 - 13
13 - 14	7	5	18.74	53	32.8	91.1	13 - 14
14 - 15	.	2 .	19.44	52	33.9	93	14 - 15
15 - 16	1	1	18,79	51	33+8	92.9	15 - 16
16 - 17	2	3	18,73	52	33.2	91.7	16 - 17
17 - 18	2	2	17.87	56	30.9	87,6	17 - 18
18 - 19	. ន	2	16.9	59	28.9	84.1	18 - 19
19 - 20	2	4	16.46	ፈ3″ :	27.2	81	19 - 20
20 - 21	î	ა ბ	16.35	69	25.5	77.9	20 - 21
21 - 22	1	8	16.68	75	24.4	75.8	21 - 22
22 - 23	-9	8	16.41	78	23.4	74.1	22 - 23
23 - 24	1	8	16.74	82	22.9	73.1	23 - 24

JUNE 24 , 1975

TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	COH	B SCAT	HASS LOAD	TIME
Hours.	LANGLIES	HILES /HR	DEGREES	атіни	КМ**-1	UG/X**3	EDT HOURS
0 - 1	•	0.5	225	- 9	0.016	5	0 - 1
1 - 2	0	0,5	225	-9	0.018	6	1 - 2
2 - 3	.0	0,5	225	-9	0.017	6	2 - 3
3 - 4	0	0,5	225	9	0.019	7	3 - 4
4 - 5	0	0.5	180	-9	0.018	٤.	4 - 5
5 - 6	0	0.5	180	-9	0.018	6	5 - 6
6 - 7	0+1	0.5	180	-9	0,02	7	6-7
7 - 8	0.3	1	225	-9	0+027	10	7 - 8
8 - 9	6.0	2	225	- 9	0.025	9	8 - 9
9 - 10	8.0	3	225	-9	0+025	9	9 - 10
10 - 11	1	4	225	0.1	0+029	11	10 - 11
11 - 12	o *	4	225	0.1	0	0	11 - 12
12 - 13	O	3	180	0.1	0	0	12 - 13
13 - 14	1.2	3	225	0.1	0.029	11	13 - 14
14 - 15	1.2	2	225	0.2	0.03	11	14 - 15
15 - 16	1	2	180	0.2	0.029	11	15 - 16
16 - 17	0.8	ভ্ৰ	135	0.2	0.029	11	16 - 17
17 - 18	0.5	6	135	0.2	0.027	10	17 - 18
18 - 19	0.3	4	135	0.2	0.025	9	18 - 19
19 - 20	0.1	4	135	0.2	2.20000E-2	8	19 - 20
20 - 21	0.1	2	135	0,3	0.019	7	20 - 21
21 - 22	0	1	180	0.3	0.019	7	21 - 22
22 - 23	0	2 H	180	0.1	0.017	6	22 - 23
23 - 24	0	1	180	0.1	0.016	5	23 - 24

JUNE 25 , 1975

TIME EDT	OZONE	TOTAL H.C.	HETHANE	H.CCH4 \	TOTAL SULF	UR RED. SULFUR	TIME EDT
HOURS	PPB	PFB	PPB	PPB	PPB	РРВ	HOURS
0 - 1	11	-9	-9	-9	0	ይ ነ	0 - 1
1 - 2	11	-9	-9	-9	O	6	1 - 2
2 - 3	14	- 9	- 9	-9	ø	6	2 - 3
3 - 4	15	-9	-9	- 9	0	6	3 - 4
4 - 5	12	-9	-9	-9	0	6	4 - 5
5 - 6	1	- 9	-9	-9	24	6	5 - 6
6-7	-9	-9	-9	-9	58	6	6 - 7
7 - B	-9	-9	-9	-9 - 1 1 A	0	6	7 - 8
8 - 9	14	- 9	- 9	-9	•	6	8 - 9
9 - 10	34	-9	-9	-9	0	6	9 - 10
10 - 11	62	- 9	-9	-9	14	6	10 - 11
11 - 12	95	-9	-9	-9	7	6	11 - 12
12 - 13	104	-9	-9	-9	3 1	6	12 - 13
13 - 14	119	3244	2577	666	. o	6	13 - 14
14 - 15	135	3350	2545	804	. 0	6	14 - 15
15 - 16	108	3489	2789	879	0	క	15 - 16
1ò - 17	112	3604	2683	921	0	6	16 - 17
17 - 18	164	3297	2567	730	•	6	17 - 18
15 - 19	85	3562	2715	846	0	6	18 - 19
19 - 20	55	4642	3043	1598	0	4	19 - 20
20/ - 21	45	3816	2894	931	0	6	20 - 21
21 22	33	3234	2524	709	0	ь	21 - 22
22 - 23	29	3202	2302	879	0	6	22 - 23
23 - 24	28	3159	2228	931	Ó	5	23 - 24

JUNE 25 , 1975

			00112 20 7	2,,,	*		
TIME	ИD	NO2	ABS. HUH.	REL. HUM.	TEMP	TEMP	TIME EDT
EDT HOUR	PFB	PPB	G/M^3	z	C	F	HOUR
0 - 1	1	6	16.98	85	22.5	72.4	0 - 1
1 - 2	1	3	17.41	87	22.5	72.5	1 - 2
2 - 3	0	3	17.54	88	22+4	72.4	2 - 3
उ - 4	o '	3	17.85	91	22.2	71,9	3 - 4
4 - 5	0	4	18.04	93	22	71.6	4 - 5
5 - ბ	4	13	18.06	93	22	71.6	5 - 6
6 - 7	8	10	18.61	93	22.5	72.5	6 - 7
7 - B	5	12~	19.34	91	23.6	. 74.4	7 - 8
8 - 9	3	8	20.06	85	25.4	77.7	8 - 9
9 - 10	4	16	20.83	76	28.1	82.4	9 - 10
10 - 11	2	18	21.1	68	30.4	84+7	10 - 11
11 - 12	<u>1</u>	10	22.75	62	33.5	92,4	11 - 12
12 - 13		5	22,52	54	35,3	95.5	12 - 13
13 - 14	0	7	22.32	54	35.8	94.5	13 - 14
14 - 15	• •	9	21.31	· 53	35.3	95.5	14 - 15
15 - 16	-9	6	20.37	54	34.1	93.3	15 - 16
16 - 17	-9	3	19.82	54	33.5	92.4	16 - 17
17 - 18	0	2	19.1	54	32.8	91.1	17 - 18
18 - 19	-9	2	18,21	. 56	31.3	88.3	18 - 19
19 - 20	-9	ធ	18.17	62	29+3	84.8	19 - 20
20 - 21	~9	4	18.64	70	27.6	81,7	20 - 21
21 - 22	-9	5	19.77	78	26.7	80.1	21 - 22
22 - 23	0	5	19.65	81	25.9	78.6	22 - 23
23 - 24	-9	5	18.98	82	25.1	77.1	23 - 24

JUNE 25 , 1975

TIHE	SOLAR RAD	WIND SPEED	WIND DIR.	СВН	B SCAT :	MASS LOAD	TIME
EDT HOURS	LAMGLIES	MILES /HR	DEGREES	UNITS .	KM**-1	, ne/H**3	EDT HOURS
0 - 1	0	2	225	0.2	0.019	7	0 - 1
1 - 2	0	.	225	0.2	0.017	6 •	1 - 2
2 - 3	ο .	2	225	0.1	0.018	۵	2 - 3
3 - 4	0	2	225	0.1	0.017	្នា ស្រុក ភ	3 - 4
4 - 5	0	1 .	225	0.1	0.017	6	4 - 5
5 - 6	0	1	225	0.1	0.014	′ 5	5 - 6
6 - 7	0.1	2	225	0.1	0.02	7	6 - 7
7 - 8	0.2	3	270	0.1	0.019	. 7	7 - 8
8 - 9	0.4	3	270	0.2	0.019	7	. 8 - 9
9 - 10	0.3	2	270	0.2	0.021	8	9 - 10
10 - 11	0.9	2	270	0+3	0.024	9	10 - 11
11 - 12	1.1	: 1	270	0.3	0.025	9	11 - 12
12 - 13	1.2	2	90	0.2	0.028	10	12 - 13
13 - 14	1.2	1	90	0.2	0.034	12	13 - 14
14 - 15	1	. 2	90	0.3	0.038	14	14 - 15
15 - 16	0.9	4	45	0.3	0.038	14	15 - 16
16 - 17	0.8	5	135	0.2	0+036	13	16 - 17
17 - 18	0.5	ភ	90	0.2	0.04	15	17 - 18
18 - 19	0.3	3	135	0.1	0.031	11	18 - 19
19 - 20	0.1	4	135	0.1	0.027	10	19 - 20
20 - 21	•	2	135	o	0.02	7	20 - 21
21 - 22	•	2	135	0	0.017	6	21 - 22
22 - 23	, o	2	180	0.1	0.013	5	22 - 23
23 - 24	o .	1	180	0.1	0.014	5	23 - 24

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TIME EDT	OZONE	TOTAL H.C.	METHANE	H+C+-CH4	TOTAL SULFUR	RED, SULFUR	TIME EDT
Hours	PPB	PPB	PPB	PPB	PPB	899	HOURS
0 - 1	22	- ₽	-9	-9	o	5	0 - 1
i - 2	21	-9	-9	-9	Ö	5	1 - 2
2 - 3	24	-9	-9	- 9	ø	6	2 - 3
3 - 4	28	9	-9	-9	o	6	3 - 4
4 - 5	33	-9	-9	-9	0	5	4 - 5
5 - 6	21	-9	-9	-9	O	5	5 - 6
6 - 7	5	-9	9	-9	•	5	6-7
7 - 8	13	~ 9	-9	-9	o	6	7 - 8
8 - 9	-9	-9	-9	9	0	5	8 - 9
9 - 10	12	2577	-9000	-9000	٥	5	9 - 10
10 - 11	18	2461	1264	1196	O	5	10 - 11
11 - 12	31	2651	2154	497	0	6	11 - 12
12 - 13	23	2101	1931	169	o ·	5	12 - 13
13 - 14	28	3181	2260	921	0	5	13 - 14
14 - 15	29	3054	2027	1026	0	5	14 - 15
15 - 16	31	6505	3784	2720	0	6	15 - 16
16 - 17	20	4620	2895	1725	0	4	16 - 17
17 - 18	18	2270	1900	370	0	6	17 - 18
18 - 19	20	1974	1794	179	0	6	18 - 19
19 - 20	22	2005	1783	222	O	5	19 - 20
20 - 21	19	2164	1868	296	0	ሪ	20 - 21
21 - 22	15	1931	1698	232	•	6	21 - 22
22 - 23	10	1868	1646	222	0	6	22 - 23
23 - 24	3	1942	1624	317	٥	6	23 - 24

JUNE 26 , 1975

TIME EDT	מא	, NO2	ABS. HUM.	REL. HUM.	TEMP	: TEMP	TIME
HOUR	PPB	PFB	G/M^3	% % • • • • • • • • • • • • • • • • • • •	C	F	EDT HOUR
0 - 1	-9	9	18.98	85	24.4	76	0 - 1
1 - 2	1	8	18.83	88	24.1	75.3	1 - 2
2 - 3	0	3 _	18.49	87	23.4	74.4	2 - 3
3 - 4	0	3	18.84	89	23.5	74.3	3 - 4
4 - 5	1	3	18.44	91	22.9	73,3	4 - 5
5 - 6	-9	2	18,61	93	22.5	72.5	5 - 6
6-7	1	4	19.19	94	22.9	73.1	6-7
7 - 8	3	11	20.79	94	24.3	75.7	7 - B
8 - 9	3	7	18.83	86	24.1	75,3	8 - 9
9 – 10	1	5	21.77	76	28.9	84.1	9 - 10
10 - 11	-9	5	20.81	69	29.9	85.8	10 - 11
11 - 12	-9	-9	19.67	67	29.4	84.9	11 - 12
12 - 13	1	9	20.24	68	29.6	85.3	12 - 13
13 - 14	2	9	20.36	67	30	88	13 - 14
14 - 15	2	-9	20.28	66	30.2	86.4	14 - 15
15 - 16	2	3	19.01	66	29	84+2	15 - 16
16 - 17	2	-9	18,08	67	27.8	82.1	16 - 17
17 - 18	2	1	18.11	48	27.6	81.7	17 - 18
18 - 19	2	.	17.78	69	27	80.6	18 - 19
19 - 20	1.	1.	17,49	71	26.2	79.1	19 - 20
20 - 21	- 9	5	17.6	75	25.3	77.6	20 - 21
21 - 22	-9	14	18.09	81	24.4	76	21 - 22
22 - 23	-9	18	18,46	86	23.7	74.7	22 - 23
23 - 24	-9	19	18,73	89	23+4	74-1	23 - 24

JUNE 26 , 1975

	- 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1	4.00	JUNE 20 1	1774	•	and the second second	1
TIME	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME EDT
EDT HBURS	LANGLIES	MILES /HR	DEGREES	טאנדב	KM**-1	UG/M**3	· HOURS
0 - 1	0	1	180	0.3	0.016	5	0 - 1
1 - 2	0	1	180	0.3	0.02	7	1 - 2
	0.1	1	180	0.1	0.021	8	2 - 3
2 - 3	0+1	i	180	0.1	0.019	7	ত্ত – 4
3 7 .4		1	180	0.1	0.013	5	4 - 5
4 - 5	0.1	0.5	180	0.1	0.013	5	5 - 6
5 - 6	0.1	0.5	180	0.1	0.016	5.	6 - 7
6-7	0.1		180	0.1	0.017	6	7 - 8
7 - 8	0.2	1	180	0.2	0.018	6	8 - 9
8 - 9	0.5			0.2	0.02	7	9 - 10
9 - 10	0.7		135	0.2	2.20000E-2	8	10 - 11
10 - 11	0.7	2	135		0.028	10	11 - 12
11 - 12	0.5	2	135	0.2	0.03	11	12 - 13
12 - 13	8,0	4	135	0.1	0.031	11	13 - 14
13 - 14	1.1	5	135	0.1		13	14 - 15
14 - 15	0.8	5	. 135	0.1	0.036	15	15 - 16
15 - 16	0.5	6	135	0+1	0.04		16 - 17
16 - 17	0.4	5	135	0.1	0.034	12	17 - 18
17 - 18	0,3	5	135	0.1	0.028	. 10	18 - 19
18 - 19	0.2	4: 1	135	0.1	2.30000E-2	8	
19 - 20	0.1	4	90	0.1	0.02	7	19 - 20
20 - 21	0.1	3	90	0.1	0.018	6	20 - 21
21 - 22	0	2	90	0.1	0.017	. 6	21 - 22
22 - 23	0	2	90	0.2	0.017	6	22 - 23
57 - 74	0	2	90	0.2	0.014	5	23 - 24

JUNE 27 , 1975

TIHE EDT	DZONE	TOTAL H.C.	HETHANE	H.CCH4 \	TOTAL SULF	UR .RED. SULFUR	TIME EDT
Hours	PPB	PPB	PPB	FPB	PPB	PPB	HOURS
0 - 1	7	1974	1698	275	0	6	0 - 1
1 - 2	8	1900	1435	264	11	6	1 - 2
2 - 3	9	1910	1593	317	0	6	2 - 3
3 - 4 .	10	1953	1762	170	0		3 – 4
4 - 5	11	2228	1984	243	0	8	4 - 5
5 - 6	6	2397	1878	518	0	ک	5 - 6
6 - 7	-9	2175	1857	317	o	6	6-7
7 - 8	12	1974	1783	190	0	. 6	7 - 8
8 - 9	31	1868	1720	148	0	6	8 - 9
9 - 10	37	1942	1804	137	0	6	9 - 10
10 - 11	25	2048	1878	169	0	6	10 - 11
11 - 12	25	2101	1910	190	0	6	11 - 12
12 - 13	26	2122	1931	190	0	4	12 - 13
13 - 14	32	1974	1815	158	0	6	13 - 14
14 - 15	31	1931	1773	158	0	6	14 - 15
15 - 1 6	26	2122	1887	232	0	6	15 - 16
16 - 17	26	9977	9977	0	0	6	16 - 17
17 - 18	15	2270	2058	211	• •	6	17 - 18
18 - 19	22	2672	2556	116	o	6	18 - 19
19 - 20	29	9998	4874	. 5123	0	6	19 - 20
20 - 21	20	3011	2514	497	•	6	20 - 21
21 - 22	24	2482	2133	349	•	6	21 - 22
22 - 2 3	23	2641	2355	285	0	.	22 - 23
23 - 24	28	1953	1741	211	0	6	23 - 24

JUNE	27	y	1975
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TIME EDT	סא	NO2	ABS. HUH.	REL. HUM.	TEMP	TEMP	TIME
Hour	PPB	PFB	G/M^3	7	c	F	EDT HOUR
0 - 1	-9	18	18.77	71	23	73.5	0 - 1
1 - 2	-9	13	18.79	92	22.9	73.1	1 - 2
2 - 3	9	13	18.79	92	22.9	73.1	2 - 3
3 → 4	-9	9,	18.69	93	22.6	72.6	3 - 4
4 - 5	-9	8	18.52	95 .	22	71.7	4 - 5
5 - 6	-9	.15	18.09	97	21.3	70.3	5 - 6
6 - 7	7	21	19.57	98	22.5	72.4	6-7
7 – 8	7	18	22.6	93	25.9	78.7	7 - 8
8 - 9	1	1	19.28	79	26	78.8	8 - 9
9 - 10	1	1	18.59	73	26.8	80.2	9 - 10
10 - 11	1	1	18.73	69	27.9	82.3	10 - 11
11 - 12	1	• 1	18.87	6 5	29.2	84.5	11 - 12
12 - 13	0	2	18	62	27.2	84.5	12 - 13
13 - 14	1	2	18.4	64	29	84.2	13 - 14
14 - 15	0	-9	19,42	65	29.7	85.4	14 - 15
15 - 16	0	-6	18.62	66	28.6	83.5	15 - 16
16 - 17	-9	1	19.34	65	29,6	85.3	16 - 17
17 - 18	0	1	18.76	64	29.3	84.8	17 - 18
1B - 19	0	1	18,4	64	29	84.2	18 - 19
19 - 20	0	1	16.65	ద ర	26.6	79,9	19 - 20
20 - 21	0	1	16.56	72	25	76.9	20 - 21
21 - 22	-9	7	16.13	79	22.9	73.1	21 - 22
22 - 23	-9	9	17.98	81	24.3	75.8	22 - 23
23 - 24	0	10	18,35	83	24.3	75.7	23 - 24

JUNE 27 , 1975

			WE/12				and the second second second
TIME	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME EDT
EDT HOURS	LANGLIES	MILES /HR	DEGREES	иміть .	KH**-1	UG/M**3	. Hours
0 - 1	O	2	135	0.1	0.013	5	0 - 1
1 - 2	0	2	135	0.1	0.013	5	1 - 2
2 - 3	0	2	135	0	0.013	4	2 - 3
3 - 4	0	1	135	0	0.013	4	3 - 4
4 - 5	0	0.5	135	0.1	0,013	4	4 - 5
5 - 6	0	0,5	135	0.1	0.013	4	5 - 6
6 - 7	0.1	1	135	0.1	0.013	5	6 - 7
7 – 8	0.4	2	135	0.1	0.016	. 5'	7 - 8
8 - 9	0.6	4	135	0.1	0.014	5	8 - 9
9 - 10	0.9	4	135	0.1	0.014	5	9 - 10
10 - 11	1	ភ	135	0	0.014	5	10 - 11
11 - 12	1.2	4	135	0	0.016	5	11 - 12
12 - 13	1	5	135	o	0.017	4	12 - 13
13 - 14	0.8	7	135	0	0.017	8	13 - 14
14 - 15	1	7	135	0	0.016	5	14 - 15
15 - 16	0.7	8	135	0	0.017	6	15 - 16
16 - 17	0.9	8	135	0.1	0.021	7	16 - 17
17 - 18	0,6	5	135	0.1	0.015	5	17 - 18
18 - 19	0+4	5	135	0,1	0.017	6	18 - 19
19 - 20	0.1	5	135	0,1	2.30000E-2	8	19 - 20
20 - 21	0.1	3	135	o	0.016	5	20 - 21
21 - 22	0.1	2	135	0	0.015	5	21 - 22
22 - 23	0.1	2	135	0	0.013	5	22 - 23
23 - 24	0.1	3	135	o	0.013	5	23 - 24

JUNE 28 , 1975

TIME	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME EDT
EDT HOURS	PPB	PPB	PPB	PFB	PPB	PPB	HOURS
0 - 1	15	1953	1741	211	0	6	0 - 1
1 - 2	26	1847	1709	137	o	6	1 - 2
2 - 3	14	1783	1603	179	•	6	2 - 3
3 - 4	17	1667	1518	148	0	6	3 - 4
4 - 5	24	169B	1561	137	•	6	4 - 5
5 - 6	28	1720	1561	158	0	6	5 - 6
6 - 7	28	1741	1593	148	•	6	6 - 7
7 - 8	74	1720	1582	137	. o	6	7 - 8
8 - 9	42	1720	1582	137	0	-9	8 - 9
9 - 10	78	1825	1656	169	0	-9	9 - 10
10 - 11	23	1836	1656	179	0	-9	10 - 11
11 - 12	26	1804	1646	158	0	-9	11 - 12
12 - 13	29	1762	1656	105	•	O	12 - 13
13 - 14	34	1868	1720	148	o	0	13 - 14
14 - 15	35	1857	1709	148	0	. • • • • • • • • • • • • • • • • • • •	14 - 15
15 – 16	28	1847	1667	179	0	0	15 - 16
16 - 17	23 .	1783	1614	169	0	0	16 - 17
17 - 18	31	1709	1529	179	Ö	0	17 - 18
18 - 19	31	1815	1656	158	0	0	18 - 19
19 - 20	31	1836	1488	148	Ö	0	19 - 20
. 20 21	17	1815	1635	179	0	0	20 - 21
21 - 22	29	1879	1709	169	Ö	0	21 - 22
22 - 23	32	2016	1847	169	0	0	22 - 23
23 - 24	उ ०	2069	1910	158	•	mo de la com	23 - 24

JUNE 2B , 1975

TIHE	סא	И02	ABS. HUM.	REL. HUM.	TEMP	TEMP	TIME
EDT HOUR	PPB	PFB	G/หา ช	7	C	F	EDT HOUR
0 - 1	-9	3	18,28	83	24.2	75.5	0 - 1
1 - 2	-9	4	18,5	84	24.2	75.5	1 - 2
2 - 3	-9	• 3	18,45	84	24.3	75.8	2 - 3
3 - 4	-9	3,	 9	-9	23	73.5	उ - 4
4 - 5	-9	i	-9	-9	22.9	73.1	4 - 5
5 - 6	-9	i	-9	-9	22.7	72,8	5 - 6
6 - 7	-9	1	-9	-9	22+6	72.6	6 - 7
7 - 8	-9		≟9 . **	-9	22.9	73.1	7 - B
8 - 9		2	-9	9	23,2	73.8	8 - 9
9 - 10	1	6	-9	-9	23.9	75	9 - 10
10 - 11	1	.	-9	9	24.2	75.5	10 - 11
. 11 - 12	0	4	-9	-9	24.8	76.6	11 - 12
12 - 13	o	4	-9	− 5	24.6	76.3	12 - 13
13 - 14	-9	1	-9	-9	26.5	79,8	13 - 14
14 - 15	-9	2	20.1	80	26.5	79.8	14 - 15
15 - 16	-8	3	19.11	78	26.1	78.9	15 - 16
16 - 17	-9	4	17.67	75	25.4	77.7	16 - 17
17 - 18	-9	4	18.3	78	25.3	77.6	17 - 18
18 - 17	-9	2	20.45	83	26.2	79.1	18 - 19
19 - 20	9	ತ	18,82	81	25.1	77,2	19 - 20
20 - 21	-9	. 2	17.08	78	24.1	75.3	20 - 21
21 - 22	-9	3	17.6	82	23.7	74.7	21 - 22
22 - 23	-9	4	17,25	82	23.4	74.1	22 - 23
23 - 24	-9	4	16,54	81	22.9	73.1	23 - 24

			JÜME 28 →	1975			
TIME	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME EDT
EDT Hours	LANGLIES	MILES /HR	DEGREES	מדואט '	KM**-1	UG/M*#3	. Hours
0 - 1	0	2	135	0	1,10000E-2	4	0 - 1
1 - 2	0	2	135	0	0,012	4	1 - 2
2 - 3	O	3	135	0	0,012	4	2 - 3
3 - 4	0	3 ,	135	O	0.012	4	3 - 4
4 - 5	0	2	135	0	9.00000E-3	3	4 - 5 '
5 ~ 6	0	2	135	0	1.10000E-2	4	5 - 6
	0	2	135	0.1	9.00000E-3	3	6 - 7
6 - 7	0.1	3	135	0,1	0.012	4	7 - 8
7 - 8 8 - 9	0,2	2	135	0.1	7.00000E-3	2	8 - 9
	0,2	2	135	0.1	9.00000E-3	3	9 - 10
9 - 10			135	0.2	0.008	2	10 11
10 - 11	0.3	4	135	0.2	0.005	2	11 - 12
11 - 12	0.5	4		0.2	9.00000E-3	3	12 - 13
12 - 13	0.7	5	135		7.09000E-3	2	13 - 14
15 - 14	0.7	6 ~ .	135	0,2	7.0000E-3	2	14 - 15
14 - 15	0.7	7	135	0	7.00000E-3	2	15 - 16
15 - 16	0.4	5	135	0			16 - 17
16 - 17	0,3	5	135	0.1	800.0	3	17 - 18
17 - 18	0.3	6	135	0.1	0,008	3	And the second of the
18 - 19	0.3	7	135	0.1	0,008	2	18 - 19
19 - 20	0+2	7	135	0.1	5.00000E-3	3	19 - 20
20 - 21	0.1	6	135	Ö	9.00000E-3	3	20 - 21
21 - 22	•	6	135	0	0.008	2	21 - 22
22 - 23	0	4	135	0	9.00000E-3	3	22 - 23
23 - 24	0	3	135	0	9.00000E-3	3	23 - 24

JUNE 29 , 1975

			DUME Z7	1975			
TIKE EDT	OZONE	TOTAL H.C.	HETHANE	H.CCH4	TOTAL SULFUR	RED, SULFUR	TIME
HOURS	РРВ	PPB	РРЗ	PPB	PPB	PPB	EDT HOURS
0 - 1	30	1910	1720	190	o	0	0 - 1
1 - 2	35	1889	1677	211	0	0	1 - 2
2 - 3	74	1889	1698	190	0	0	2 - 3
3 - 4	44	1931	1720	211	0	0	3 - 4
4 - 5	-9	1857	1646	211		0	4 - 5
5 - ፈ	- 9	1847	1635	211	0	0	5 - 4
8 - 7	-9	1878	1667	211	3	0	6-7
7 - 8	-9	-9	-9	9	0	0	7 - 8
8 - 9	-9	-9	-9	-9	-9	0	8 - 9
9 - 10	9	-9	-9	- 9	• •	0	9 - 10
10 - 11	-9	-9	-9	9	o	0	10 - 11
11 - 12	43	1984	1751	232	0	0	11 - 12
12 - 13	51	1942	1730	. 211	o	0	12 - 13
13 - 14	73	1953	1762	190		0	13 - 14
14 - 15	104	1984	1751	232	0	0	14 - 15
15 - 16	42	2027	1762	264	• • • • • • • • • • • • • • • • • • •	O	15 - 16
16 - 17	39	2005	1773	232	0	0	16 - 17
17 - 18	41	1931	1730	201	0	0	17 - 18
18 - 19	38	1984	1720	254	0	0	18 - 19
19 - 20	27	1984	1741	243	0	0	19 - 20
20 - 21	32	1963	1730	232	0	0	20 - 21
21 - 22	32	1984	1730	254	0	0	21 - 22
22 - 23	35	2005	1751	254	- ç	0	22 - 23
23 - 24	ਤਰ	-9	-9	- 9	-9	0	23 - 24
	and the second s						•

			JUNE 29,	1975			
TIME EDT	NO	ለዐ2	АВЅ. НИН.	REL. HUM.	ТЕМР	: TEMP	****
HOUR	PPB	PPB	G/หา3	z	C	and the second second	TIME EDT
0 - 1	-9	2	16.58	82	22.7	# F	Hour
1 - 2	-9	3	16,48	82		72.8	0 - 1
2 – 3	-9	3	16,45		22.6	72.6	1 - 2
3 - 4	-9	₃ .	16.98	83	22.3	72.2	2 - 3
4 - 5	-9	3		84	22.7	72.8	3 - 4
5 - 6	- 9	1	17.18	85	22.7	72.8	4 ~ 5
6 - 7	-9		17.69	87	22.8	73	5 - 6
7 - 8	- 9	2	18.49	87	23.6	74.4	6 - 7
8 - 9		i	19.24	87	24.3	75.7	7 - 8
9 - 10	9	1	20.41	87	25.3	77,6	
14 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 1	1 .	20.58	Bá	25.7	78.2	8 - 9
10 - 11	-9	1	20.1	80	26.5		9 - 10
11 - 12	-9	1	20.57	78	27.4	79.8	10 - 11
12 - 13	-9	2	20.43	76		81.3	11 - 12
13 - 14	-9	1	20.68	74	27.8	82	12 - 13
14 - 15	-9	1	19.73		28.5	83.2	13 - 14
15 - 16	- 9	1	19.55	72	28.1	82.6	14 - 15
16 - 17	-9	1		72	27.9	82.3	15 - 16
17 - 18	0	1	19.36	72	27.8	82	16 - 17
18 - 19	0	1	18.44	72	26.9	80.4	17 - 18
19 - 20	0		18.09	72	24.5	79+B	18 - 19
20 - 21	.0	<u>.</u>	16.56	72	25	76.9	19 - 20
21 - 22	0	3	15,63	74	23.4	74.2	
22 - 23		3	16.25	78	23.2	73.8	20 ~ 21
23 - 24	0	4	17.08	82	23.2	73.8	21 - 22
	o	3	17.29	63	23.2	The second secon	22 - 23
						73.8	23 - 24

JUNE 29 , 1975

TIME	SOLAR RAD	WIND SPEED	WIND DIR.	СОН	B SCAT	MASS LOAD	TIME EDT
EDT HOURS	LANGLIES	MILES /HR	DEGREES	מדואט.	KH**-1	UG/M**3	. HOURS
o - 1	0	4	135	0	7.00000E-3	2	0 - 1
1 - 2		3	90	0	9.00000E-3	3	1 - 2
2 - 3	0	3	90	0 .	0.008	2	2 - 3
3 - 4	0	3,	135	0	7.00000E-3	2	3 - 4
4 - 5	o	3	90	0	9.00000E-3	3	4 - 5
5 - 6	0	्र उ	90	Ö .	0.008	3	5 - 6
ა — 7	0.1	3	45	Ö	7.00000E-3	2	6 ~ 7
7 - 8	0.2	4	45	0	0.013	5	7 - 8
8 - 9	0,5	4	45	Ó	0.013	5	8 - 9
9 - 10	0.6	3	45	0	0.013	4	9 - 10
10 - 11	1	3	45	0.1	0.016	5	10 - 11
11 - 12	1.3	<u>.</u>	45	0.1	0.018	6	11 - 12
12 - 13	1.3	6	45 ,	0	2.20000E-2	8	12 - 13
13 - 14	1.3	£	45	0	0+026	9	13 - 14
14 - 15	1,3	5	45	0.1	0.029	11	14 - 15
15 - 16	1.1	5	45	0.1	0.036	13	15 - 16
16 - 17	0.9	5	45	0.1	0.034	12	16 - 17
17 - 18	0.5	5	45	0.1	0.029	11	17 - 18
18 - 19	0.4	5	45	0	0.027	10	18 - 19
19 - 20	0.1	4	45	0	0.029	11	19 - 20
20 - 21	o	4	45	0.1	0.027	10	20 - 21
21 - 22	0	3	45	0.1	0.029	11	21 - 22
22 - 23	0	2	45	Ö	0.028	10	22 - 23
23 - 24	0	3	45	0	0.029	11	23 - 24

FAUE 11 - 1

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

JUNE 30 , 1975

TIHE	OZONE	TOTAL H.C.	METHANE	H.CCH4	, TOTAL SULFU	R .RED. SULFUR	TIKE
EDT HOURS	PPB	PPB	PPB	PPB	PPB	PPB	EDT HOURS
0 - 1	27	-9	9	-9	Ö	o	0 - 1
1 - 2	24	-9	-9	-9	0	0	1 - 2
2 - 3	30	-9	-9	-9	0	o	2 - 3
3 - 4	33	-9	-9	-9	0	• •	3 - 4
4 - 5	34	-9	-9	-9	0	•	4 - 5
5 - 6	32	-9	-9	-9	o , **	0	5 - 6
6 - 7	49	-9	6- 5	9	0	. 0	6 - 7
7 - 8	33	2090	1889	. 201	0	0	7 - B
8 - 9	29	2133	1942	190	0	• •	8 - 9
9 - 10	28	2122	1931	190	٥	•	9 - 10
10 - 11	37	2133	1942	190	0	o . •	10 - 11
11 - 12	40	2196	1963	232	0	o	11 - 12
12 - 13	44	2270	2005	264	0	•	12 - 13
13 - 14	43	2344	1963	381	0	o · · ·	13 - 14
14 - 15	44	2281	1942	338	0	,	14 - 15
15 - 16	44	2302	2005	296	0	0	15 - 16
16 - 17	48	2376	2037	338	o	• •	16 - 17
17 - 18	48	2376	2069	307	0	٥	17 - 18
18 - 19	74	2344	2080	264	0	0	18 - 19
19 - 20	58	2334	2069	264	0	O	19 - 20
20 - 21	53	2408	2175	232	0	•	20 - 21
21 - 22	57	2577	2312	264	0	•	21 - 22
22 - 23	71	2535	2249	285	0	•	22 - 23
23 - 24	77	2588	2344	243	O	. 0	23 - 24

JUNE 30 : 1975

HOUR PPB PPB PPB 6/M³ Z C F HOUR 0 - 1	TIME	סא	NO2	ABS. HUM.	REL. HUM.	TEMP	TEMP	TIKE EDT
1 - 2	EDT HOUR	PPB	PPB	G/M73	%	C	F	HOUR
2 - 3	0 - 1	-9	⊢ 9	17.08	82	23.2	73. B	0 - 1
2 - 3	1 - 2	-9		16,34	80	22.9	73.1	1 - 2
4 - 5 -9 -9 15.57 81 21.8 71.2 4 - 5 5 - 6 -9 -9 15.95 81 22.2 72 5 - 6 6 - 7 -9 -9 16.48 82 22.6 72.6 6 - 7 7 - 8 1 2 17.5 82 23.6 74.5 7 - 8 8 - 9 1 2 18.03 82 24.2 75.5 8 - 9 9 - 10 -9 1 18 79 24.8 76.6 9 - 10 10 - 11 -9 -9 17.77 78 24.8 76.6 10 - 11 11 - 12 0 1 18.85 78 25.8 78.5 11 - 11 12 - 13 1 3 17.42 75 25.1 77.2 12 - 13 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 <	2 - 3	-9		16.01	80	22.5	72.5	2 - 3
5 - 6 -9 -9 15,95 81 22.2 72 5 - 6 6 - 7 -9 -9 16,48 82 22.6 72.6 6 - 7 7 - 8 1 2 17.5 82 23.6 74.5 7 - 8 8 - 9 1 2 18.03 82 24.2 75.5 8 - 9 9 - 10 -9 1 18 79 24.8 76.6 9 - 10 10 - 11 -9 -9 17.77 78 24.8 76.6 10 - 11 11 - 12 0 1 18.85 78 25.8 78.5 11 - 11 12 - 13 1 3 17.42 75 25.1 77.2 12 - 13 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.47 79 24.3 75.7 13 - 1 15 - 14 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79	3 - 4	-9 .	- 7.	15.69	80	22.2	71.9	3 - 4
4 - 7 -9 -9 16.48 82 22.6 72.6 6 - 7 7 - 8 1 2 17.5 82 23.6 74.5 7 - 8 8 - 9 1 2 18.03 82 24.2 75.5 8 - 9 9 - 10 -9 1 18 79 24.8 76.6 9 - 10 10 - 11 -9 -9 17.77 78 24.8 76.6 10 - 1 11 - 12 0 1 18.85 78 25.8 78.5 11 - 1 12 - 13 1 3 17.42 75 25.1 77.2 12 - 1 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24	4 - 5	-9	-9	15.57	81	21.8	71.2	4 - 5
7 - 8	5 - 6	-9	-9	15.95	81	22.2	72	5 - 6
8 - 9 1 2 18,03 82 24.2 75.5 8 - 9 9 - 10 -9 1 18 79 24.8 76.6 9 - 10 10 - 11 -9 -9 17.77 78 24.8 76.6 10 - 1 11 - 12 0 1 18.85 78 25.8 78.5 11 - 1 12 - 13 1 3 17.42 75 25.1 77.2 12 - 1 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31	6 - 7	- 9	-9	16.48	82	22.6	72.6	4 - 7
9-10 -9 1 18 79 24.8 76.6 9-10 10-11 -9 -9 17.77 78 24.8 76.6 10-1 11-12 0 1 18.85 78 25.8 78.5 11-1 12-13 1 3 17.42 75 25.1 77.2 12-13 13-14 -9 5 17.47 79 24.3 75.7 13-1 14-15 -9 5 17.29 83 23.2 73.8 14-1 15-16 -9 3 19.22 80 25.7 78.3 15-1 16-17 -9 5 16.79 73 25 76.9 16-1 17-18 -9 4 16.24 72 24.6 76.3 17-1 18-19 -9 5 15.83 73 23.9 75 18-1 19-20 1 5 15.31 75 22.9 73.1 19-2 20-21 -9 5 15.12 76 22.4	7 - 8	1	2	17.5	82	23.6	74.5	7 - 8
10 - 11 -9 -9 17.77 78 24.8 76.6 10 - 1 11 - 12 0 1 18.85 78 25.8 78.5 11 - 1 12 - 13 1 3 17.42 75 25.1 77.2 12 - 1 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 -76 22.4 72.3 20 - 2 21 - 22 -9 5 13.5	B 9	1	2	18.03	82	24.2	75 .5	8 - 9
11 - 12 0 1 18,85 78 25.8 78.5 11 - 12 12 - 13 1 3 17.42 75 25.1 77.2 12 - 13 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 -76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.	9 - 10	-9	1	18	79	24.8	76.6	9 - 10
11 - 12 0 1 3 17.42 75 25.1 77.2 12 - 13 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 - 76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	10 - 11	-9	-9	17.77	78	24.B	76.6	10 - 11
12 - 13 1 3 17.42 75 25.1 77.2 12 - 13 13 - 14 -9 5 17.47 79 24.3 75.7 13 - 1 14 - 15 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 - 76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	11 - 12		1 •	18,85	78	25.8	78.5	11 - 12
13 - 14 -9 5 17.29 83 23.2 73.8 14 - 1 15 - 16 -9 3 19.22 80 25.7 78.3 15 - 1 16 - 17 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 - 76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2		1	3	17,42	75	25.1	77.2	12 - 13
14 - 15 -9 3 19,22 80 25,7 78,3 15 - 1 16 - 17 -9 5 16,79 73 25 76,9 16 - 1 17 - 18 -9 4 16,24 72 24,6 76,3 17 - 1 18 - 19 -9 5 15,83 73 23,9 75 18 - 1 19 - 20 1 5 15,31 75 22,9 73,1 19 - 2 20 - 21 -9 5 15,12 - 76 22,4 72,3 20 - 2 21 - 22 -9 5 13,57 71 21,7 71,1 21 - 2 22 - 23 -9 6 13,53 73 21,2 70,1 22 - 2	13 - 14	-9	5	17.47	79	24.3	75.7	13 - 14
15 - 18 -9 5 16.79 73 25 76.9 16 - 1 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 -76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	14 - 15	- 9	5	17.29	. 83	23.2	73.8	14 - 15
16 - 17 17 - 18 -9 4 16.24 72 24.6 76.3 17 - 1 18 - 19 -9 5 15.83 73 23.9 75 18 - 1 19 - 20 1 5 15.31 75 22.9 73.1 19 - 2 20 - 21 -9 5 15.12 - 76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	15 - 16	-9	इ	19,22	80	25.7	78.3	15 - 16
17 - 18 -7 18 - 19 -9 5 19 - 20 1 5 15,31 75 22,9 20 - 21 -9 5 21 - 22 -9 22 - 23 -9 6 13,53 73 21,2 21 - 2 70,1 22 - 2	16 - 17	-9	5	16.79	73	25	76.9	16 - 17
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17 - 18	-9	4	16.24	72	24.6	76.3	17 - 18
20 - 21 -9 5 15.12 -76 22.4 72.3 20 - 2 21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	18 - 19	-9	5	15.83	73	23.9	75	18 - 19
21 - 22 -9 5 13.57 71 21.7 71.1 21 - 2 22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	19 - 20	1	. 5	15,31	75	22.9	73.1	19 - 20
22 - 23 -9 6 13.53 73 21.2 70.1 22 - 2	20 21	- 9	5	15.12 -	76	22.4	72.3	20 - 21
22 - 25	21 - 22	-9	5	13.57	71	21.7	71.1	21 - 22
23 - 24 -9 5 13.67 73 21.3 70.4 23 - 2	22 - 23	-9	6	13.53	73	21.2	70.1	22 - 23
	23 - 24	-9	5	13,67	73	21.3	70.4	23 - 24

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

JUNE 30 , 1975

			JUNE 30 .	1975	•	the second second	•
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIHE
HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	Ки**-1	UG/M**3	EDT HOURS
0 - 1	0	3	45	0.1	0.038	14	0 - 1
1 - 2	0	3	45	0.1	0.036	13	1-2
2 - 3	0.1	2	45	0.1	0.038	14	2 - 3
3 - 4	0.1	ā	45	0.1	4.10000E-2	15	3 - 4
4 ~ 5	0.1	4	45	0.1	4+40000E-2	16	4 - 5
5 - 6	0.1	4	45	0.1	0.05	18	5 - 6
6-7	0.1	4	45	0.1	0.045	17	6 - 7
7 - 8	0.2	5	45	0.1	0.035 .	i3	7 - 8
8 - 9	0.5	6	45	0.1	0.05	18	8 - 9
9 - 10	0.5	5	45	0.1	0.025	9	9 - 10
10 - 11	0.6	6	45	O	0+032	12	10 - 11
11 - 12	0.7	6	45	0	0.04	15	
12 - 13	0+6	7	45	0.1	0.045	17	11 - 12
13 - 14	0+4	4	45	0.1	0.052	19	12 - 13
14 - 15	0.3	. 5	45	0	0.038	14	13 - 14
15 - 16	0.9	.	45	0	0.031		14 - 15
16 - 17	0.6	6	45	0,1	0.031	11	15 - 16
17 - 18	0.6	7	45	0.1	4,10000E-2	16	16 - 17
18 - 19	0.₃	6	45	0.1	0.045	15	17 - 18
19 - 20	0.1	6	45	0.1	4+60000E-2	17	18 - 19
20 21	0	<mark>ፊ</mark>	45	0		17	19 - 20
21 - 22	0	3	45	o	0.043	16	20 - 21
22 - 23	0	4	45		0.032	12	21 - 22
23 - 24	ø	4	45	0.1	0.036	13	22 - 23
	p(1) = p			0.1	0.028	10	23 - 24

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

****	•		חורג ז	1975			
TIME EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4	YOTAL SULFUR	RED. SULFUR	TIME
Hours	PPB	PFB	PPB	PPB	PPB	PPB	EDT
0 - 1	53	2619	2355	264	0		HOURS
1 - 2	77	2619	2365	254		0	0 - 1
2 - 3	51	2630	2344	285	0	0	1 - 2
3 - 4	39	2651	2365	285	0	O	2 - 3
4 - 5	63	2609	2291		0	0	3 - 4
5 - 6	43	2641	2312	317	0	Ö	4 - 5
6-7	42	2609		328	~9	0	5 - 6
7 - 8	48	2578	2281	328	.	0	6 - 7
8 - 9	54	2662	2312	285	9	0	7 - 8
9 - 10	61		2344	317	-9	0	8 - 9
10 - 11	59	2948	2524	423	-9	0	9 - 10
11 - 12		2948	2545	402	-9	0	10 - 11
	55	2905	2524	381	 9	0	11 - 12
12 - 13	77	- 9	-9	-9	171	ō	12 - 13
13 - 14	132	- 9	-9	-9	0	0	13 - 14
14 - 15	124	- 9	-9	-9	-9	0	
15 - 16	62	1847	-9000	-9000	o	0	14 - 15
16 - 17	40	1573	-9000	-9000	o	0	15 - 16
17 - 18	35	1614	-9000	-9000	0		16 - 17
18 - 19	40	1614	-9000	-9000	0	0	17 - 18
19 - 20	42	1614	-9000	-9000	0	0	18 - 19
20 - 21	37	-9	- -9	~ 9		0	19 - 20
21 - 22	17	3657	3096	561	3	0	20 - 21
22 - 23	7	4652	3678	973	10	0	21 - 22
23 - 24	-9	9	-9	-9	0	O 4 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	22 - 23
			•	-y	0	0	23 - 24

				JULY I	, 1975		•	
	TIHE EDT	סא	ND2	ARS, HUM.	REL. HUM.	TEMP	TEMP	TIME EDT
٠	HOUR	PPB	РРВ	פיאיש	%	C	F	Hour
	0 - 1	1	1	13,16	72	20.9	69.7	0 - 1
	1 - 2	-9	-9	12.89	72	20.6	69	1 - 2
	2 - 3	9	- 9	12.76	72	20.4	48.7	2 - 3
	उ - 4	-9	-9	12,17	72	19.6	67.3	3 - 4
	4 - 5	-9	-9	11.99	73	19.1	66.4	4 - 5
	5 - 6	-9	-9	12.01	74	18.9	66	5 - 6
	6 - 7	1	8	12,68	75	19.6	67.3	6 - 7
•	7 - 8	1	8	13.39	73	21	69.8	7 - 8
,	8 - 9	1	4	13.38	71	21.5	70.6	8 - 9
	9 - 10	1	8	13,87	70	22,3	72+2	9 - 10
	10 - 11	0	8	14.23	69	23	73.5	10 - 11
	11 - 12	0	6	14.63	69	23.5	74.3	11 - 12
	12 - 13	1 1	5	14.77	48	23.9	75.1	12 - 13
	13 - 14	0	4	14.93	63	25.5	77.9	13 - 14
	14 - 15	-9	3	14.61	60	26	78.8	14 - 15
	15 - 16	-9	3	14.48	59	26.1	79	15 - 16
	16 - 17	9	1	14.37	58	26.3	79.3	16 - 17
	17 - 18	1	3	14.15	57	26.3	79.4	17 - 18
	18 - 19	-9	3	13.91	57	26	78.8	18 - 19
	19 - 20	-9	.	13.07	59	24.3	75.7	19 - 20
	20 - 21	~9	10	11,99	63	21.6	70.9	20 - 21
	21 - 22	-9	27	11.61	71	19	66.3	21 - 22
	22 - 23	12	41	11.36	79	16.9	62.3	. 22 - 23
	23 - 24	40	41	11.66	85	16.1	61	23 - 24

			JULY 1	, 1975			
TIME	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT :	MASS LOAD	TIME EDT
EDT HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	км**-т	UG/M**3	Hours
0 - 1	0	3	90	0	0,019	7	0 - 1
1 - 2	0	4	90	0	0.018	6 V	1 - 2
2 - 3	•	4	90	0	0.015	5	2 - 3
3 - 4	0	4	180	0	0.013	5	3 - 4
4 - 5	0	3	270	ò	0.013	5	4 - 5
5 - 6	•	3	270	0	0.014	5	5 - 6
6 - 7	0.1	. 4	270	0	0.016	5	6 - 7
7 - 8	0.4	4	270	0	1.10000E-2	4	7 - 8
8 - 9	0.6	5	270	0	1.10000E-2	4	8 - 9
9 - 10	-9	6	315	0	0.012	4	5 7 - 10
10 - 11	1.1	6	315	0.2	0.014	5	10 - 11
11 - 12	1.3	7	315	0.2	0.019	7	11 - 12
12 - 13	1.3	7	315	0.1	0.028	10	12 13
13 - 14	1.4	હ	315	0.1	0.019	• 7	13 - 14
14 - 15	1.3	5	315	0.1	0.018	6	14 - 15
15 - 16	1.2	6	315	0.1	0.017	6	15 - 16
16 - 17	1	6	315	0	0.013	5	16 - 17
17 - 18	0.8	5	315	0	0.012	4	17 - 18
18 - 19	0.4	4	315	0	0.013	5	18 - 19
19 - 20	0.2	4	315	0	0.014	5	19 - 20
20 - 21	0.1	2	270 .	0.1	0.016	5	20 - 21
21 - 22	0.1	1	180	0.1	0.02	7	21 - 22
22 - 23	0.1	O	180	0.2	0.027	to	22 - 23
23 - 24	0.1	0	180	0.2	0.024	9	23 - 24
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			JULY 2	, 1975			
TIME EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME
HOURS	PPB	PPB	PPB	РРВ	PPB	PPB	EDT HOURS
0 - 1	-9	⊢9	-0	-9	Ģ	O	0 - 1
1 - 2	-9	-9	-9	-9	9	0	1 - 2
2 - 3	17	-9	-9	-9	3	•	2 - 3
3 - 4	17	− 2	9	-9	3	0	3 - 4
4 - 5	17	-9	- 9	-9	0	0	4 - 5
5 - 6	21	-7	-9	-9	6	0	5 ~ 6
6 - 7	22	-9	-9	-9	9	0	6-7
7 - 8	23	-9	~ ₽	-9	9	0 .	7 - 8
8 - 9	59	4112	3413	6 7 8	9	Ò	8 - 9
5 - 10	71	3932	348B	444	9	0	9 - 10
10 - 11	101	3985	3530	455	9	0	10 - 11
11 - 12	126	4091	3498	592	4	0	
12 - 13	120	4970	3784	1185	i	0	11 - 12
13 - 14	106	3922	3403	518	្ន 	0	12 - 13 13 - 14
14 - 15	111	4070	3382	688	0	0	14 - 15
15 - 16	89	4387	3509	878	0	0	15 - 16
16 - 17	107	3975	3943	31:	O	0	16 - 17
17 - 18	95	4038	3361	677	1	O	17 - 18
18 - 19	96	-9	9	-9	4	Ö	:
19 - 20	103	- 9 ·	-9	-9	7	0	18 - 19
20 - 21	103	3371	2821	550	7	0	19 - 20
21 - 22	160	9	-9	-9	7	0	20 - 21
22 - 23	135	-9	-9	-9	3	0	21 - 22 22 - 23
23 - 24	141	3562	2863	698	_ •	0	22 - 23
the state of the s		100				- -	~~ ~~

			JULY 2	, 1975	•	•	•
TIME	סא	ND2	ABS. HUH.	REL. HUM.	темр :	TEMP	TIME EDT
EDT HOUR	PPB	PFB	G/M°3	7	C	F .	HOUR
0 - 1	67	33	11.82	88	15.7	40.3	0 - 1
1 - 2	54	43	12,22	90	15,9	60.6	1 - 2
2 - 3	12	41	12.17	91	15.7	60.2	2 - 3
3 - 4	o ·	18	12.03	89	15.8	۵0 ٠ 5	3 - 4
4 - 5	-9	18	11.66	89	15.3	59.6	4 - 5
5 - 6	1	16	11.9	88	15.8	60.5	5 - 6
6 - 7	2	23	12.6	88	17+2	62.9	6 - 7
7 - 8	5	29	13.92	81	19.9	67.8	7 - 8
8 - 9	-9	4	15.02	74	22.7	72.9	8 - 9
9 - 10	-9	11	15.49	48	24.8	76+6	9 - 10
10 - 11	-9	9	15.37	63	26	78.8	10 - 11
11 - 12	- 9	9	16.08	59	28	82.4	11 - 12
12 - 13	-9	۵ .	15+94	55	29.1	84.4	12 - 13
13 - 14	-9	8	16.2	53	30.1	86.2	13 - 14
14 - 15	-9	4	16.4	51	31.1	87.9	14 - 15
15 - 16	-9	5	16.4	51	31.1	87.9	15 - 16
16 - 17	-9	5	16.38	50	31.4	88.5	16 - 17
17 - 18	9	5	16.41	50	31+4	88.6	17 - 18
18 - 19	~9	6	14.32	50	31.3	88.4	18 - 19
19 - 20	-9	4	15.97	51	30.6	87	19 - 20
20 - 21	· -9	5	15.09	57	27.5	81.5	20 - 21
21 - 22	-9	18	12.39	61	22.7	72.9	21 - 22
22 - 23	- 9	20	12.68	68	21.3	70.3	22 - 23
27 - 24	-9	16	12.63	72	20.2	48.4	23 - 24

			JULY 2	, 1975			
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	СОН	B SCAT	MASS LOAD	TIME
HOURS	LANGLIES	MILES /HR	DEGREES	имітѕ	KH #*−1	пелижжа	EDT HOURS
0 - 1	0.1	0	45	0.6	0.059	22	0 - 1
1 - 2	0.1	0	45	0.6	0.054	20	1 - 2
2 - 3	0.1	1	0	0.3	0.035	13	2 - 3
3 - 4	0.1	2 .	0	0.3	2.20000E-2	8	3 - 4
4 - 5	0.1	2	0	0.2	0.026	9	4 - 5
5 - 6	0,1	2	45	0.2	0.029	10	5 - 6
. 6 - 7	0.2	2	45	0.3	0+04	15	6-7
7 - 8	0.4	3	45	0.3	0.043	16	7 - 8
8 - 9	0.7	7	. O	0.2	0.045	17	8 - 9
9 - 10	#	6 %	0	0.2	0.031	11	9 - 10
10 - 11	1,2	6	0	0.2	0.035	13	10 - 11
11 - 12	1.3	5	0	0.2	0.035	13	11 - 12
12 - 13	1.3	5	0	0.3	0.034	12	12 - 13
13 - 14	1,4	ទ	0	0.3	0.031	11	13 - 14
14 - 15	1.2	5	45	0.2	0.026	9	14 ~ 15
15 - 16	1,2	4	45	0.2	0.025	9	15 - 16
16 - 17	1	4	45	0.2	0.026	9	16 - 17
17 - 18	0.B	4	45	0.2	0.03	11	17 - 18
18 - 19	0.5	3	45	0.2	0.025	9	18 - 19
19 - 20	0.2	2	45	0.2	0.027	10	19 - 20
20 - 21	0.1	2	45	0.2	0.031	11	20 - 21
21 - 22	0.1	1	70	0.2	0.035	13	21 - 22
22 - 23	0.1	2	90	0.3	0.04	15	22 - 23
23 - 24	0.1	0	90				

			JULY 3	1975			
TIME EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	.RED. SULFUR	TIHE
HOURS	PPB	PPB	PPB	PPB	PPB	PPB	EDT HOURS
0 - i	94	- -9	-9	- 9		0	0 - 1
1 - 2	80	3816	3138	677	0	0	1 - 2
2 - 3	<u> 6</u> 0	-9	-9	-9	18	0	· 2 ~ 3
3 - 4	53	-9	-9	-9	66	o	3 - 4
4 - 5	56	-9	-9	- 9	15	0	4 - 5
5 - 6	48	4197	3117	1079	59	ø	5 - 6
6-7	43	9	-9	- 9	45	•	6-7
7 - 8	37	3668	2842	. 825	4	0	7 - 8
8 - 9	49	3964	3032	931	9	•	8 - 7
9 - 10	65	4874	3318	1556	10	0	9 - 10
10 - 11	97	4197	2747	1450	11	0	10 - 11
11 - 12	137	3911	3032	878	18	0	11 - 12
12 - 13	143	3488	2969	518	11	0	12 - 13
13 - 14	149	-9	-9	-9	11	0	13 - 14
14 - 15	148	3826	2990	B36	10	0	14 - 15
15 - 16	150	-9	-9	-9	10	O	15 - 16
16 - 17	119	-9	-9	-9	10	Ŏ	16 - 17
17 ~ 18	115	-9	-9	 5	13	O	17 - 18
18 - 19	119	~9	-9	- 9	13	o	18 - 19
19 - 20	-9	5679	4271	1408	17	Ö	19 - 20
20 - 21	82	4462	3805	<u> </u>	18	0	20 - 21
21 - 22	55	3509	2905	603	32	0	21 - 22
22 - 23	63	-9	-9	-9	0	0	22 - 23
23 - 24	65	-9	-9	-9	0	0	23 - 24

			JULY 3	, 1975			
TIME	מא	иоз	ARS. HUM.	REL. HUM.	TEMP :	TEMP	TIKE
HOUR	PPB	PPB	G/M^3	7.	C	F	EDT HOUR
0 - 1	0	17	13.11	79	19.3	66.7	0 - 1
1 - 2	O	16	13.5	81	19.3	8.66	1 - 2
2 - 3	0	15	13.92	81	19.9	67.B	2 - 3
3 4	1 .	16	13.92	81	19.9	67.8	3 - 4
4 - 5	0	13	13.64	81	19.5	67•1	4 - 5
5 - 6	-9	18	13.19	80	19.2	66.5	5 - 6
6 - 7	0	22	13.22	81	19	66.2	6 - 7
7 - 8	1	22	14.06	81	20	. 68.1	7 - B
8 - 9	1	14	15.85	80	22.3	72.2	8 - 9
9 - 10	1	23	17,25	75	25	76.9	9 - 10
10 - 11	0	28	18.55	69	27.8	82	10 - 11
11 - 12	0	12	20.94	66	30∙8	87.5	11 - 12
12 - 13	-9	4	20.98	61	32.3	90.2	12 - 13
13 - 14	-9	5	21.28	58	33,5	92.4	13 - 14
14 - 15	-9	5	20.55	56	33.5	92.4	14 - 15
15 - 16	0	5	21.06	55	34.3	93.8	15 - 16
16 - 17	0	5	20.75	55	34.1	93.3	16 - 17
17 - 18	1	11	20	55	33.4	92.1	17 - 18
18 - 19	0	9	19.62	56	32.7	90+8	18 - 19
19 - 20	1	11	18.06	58	30.5	86.8	19 - 20
20 - 21	1	23	18.13	59	30.2	116.4	20 - 21
ર્ગ રુ	1	40	17.24	44	107,9	81	, , , , , , , , , , , , , , , , , , ,
: 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19	1 1	• •	रम् ॥	या प	
	•	to a second	1 ign	r '	一种 正	Sec. 2010	5.4

			JULY 3	, 1975	•		
TIHE	SOLAR RAD	WIND SFEED	WIND DIR.	сон	B SCAT :	MASS LOAD	TIME EDT
EBT HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/M**3	HOURS
0 - 1	0.1	1	180	0.2	0.045	17	0 - 1
1 - 2	0.1	2	180	0.2	0.05	19	1 - 2
2 - 3	0.1	3	180	0.2	0.047	17	2 - 3
3 - 4	0,1	उ <mark>र</mark> ्जा ।	225	0,2	0.052	19	3 - 4
4 - 5	0.1	3	225	0.3	0,059	22	4 - 5
5 - 6	0,1	2	225	0.3	0.062	23	5 - 6
6 - 7	0.1	2	225	0.4	0.05	18	6 - 7
7 - B	0.2	2	225	0.4	4.50000E-2	. 24	7 - 8
8 - 9	0.4	4	225	0.3	0,062	23	8 - 9
9 - 10	0.5	4	225	0.3	860.0	25	9 - 10
10 - 11	0.9	4	270	0.3	5.30000E-2	20	10 - 11
11 - 12	-9	4	315	0.3	0.124	47	11 - 12
12 - 13	 9	6 .	315	0.2	0.108	41	12 - 13
13 - 14	-9	6	315	0.2	0.101	38	13 - 14
14 - 15	1.2	5	315	0.2	0.126	47	14 - 15
15 - 16	1,1	4	315	0.2	0,14	53	15 - 16
16 - 17	0+8	4	315	0.2	0.157	59	16 - 17
17 - 18	0.6	6	315	0.2	0.016	6	17 - 18
18 - 19	0.5	5	315	0.4	0.173	65	18 - 19
19 - 20	0+2	3	315	0.4	0.189	71	19 - 20
20 - 21	0.1	2	315 .	0.4	0.203	76	20 - 21
21 - 22	0.1	2	315	0.4	0.216	82	21 - 22
22 - 23	0.1	á	0	0	8.B0000E-2	ਤਤ -	22 - 23
23 - 24	0.1	5	45	٥	0.025	9	23 - 24

			JULY 4	, 1975			
TIKE	OZONE	TOTAL H.C.	METHANE	H+C+-CH4 '	TOTAL SULFUR	RED. SULFUR	TIME EDT
EDT HOURS	PFB	PPB	PPB	РРВ	PPB	PPB	Hours
0 - 1	54	-9	-9	-9	o	0	0 - 1
1 - 2	54	-9	9	-9	•	0	1 - 2
2 - 3	58	-9	-9	-9	0	0	2 - 3
3 - 4	63	-9	-9	-9	O	0	3 - 4
4 - 5	15	-9	-9	-9	0	0	4 - 5
5 - 6	58	-9	-9	-9	O	0	5 - 6
6 - 7	39	-9 ,	-9	-9	0	0	6 - 7
7 - 8	43	-9	-9	-9	0	0	7 - 8
B - 9	óB	-9	-9	-9	1	0	8 - 9
9 - 10	88	-9	-9	-9	0	0	9 - 10
10 - 11	71	-9	-9	-9	•	0	10 - 11
11 - 12	99	-9	-9	-9	0	0	11 - 12
12 - 13	103	-9	-9	- 9	0	O	12 - 13
13 - 14	86	2281	2005	275	0	0 1 2 2 2 2 2	13 - 14
14 - 15	81	2249	1984	264	•	0	14 - 15
15 - 16	80	2302	i963	. 338	0	0	15 - 16
16 - 17	58	-9	-9	-9	0	0	16 - 17
17 - 18	57	- 9	-9	-9	0	0	17 - 18
18 - 19	79	-9	-9	-9	ο.	0	18 - 19
19 - 20	71	-9	-9	-9	0	0	19 - 20
20 21	6 B	-₫	-9	-9	0	0	20 - 21
21 - 22	во	-9	-9	-9	o	0	21 - 22
22 - 23	72	-9	-9	-9	O	0	22 - 23
23 - 24	55	-9	-9	-9	0	0	23 - 24

			JULY 4	1975	· 	•	
TIME EDT	No	ND2	ABS. HUH.	REL. HUM.	TEMP	TEMP	TIME
HOUR	PPB	PPB	G/K73	%	C	F	EDT HOUR
0 - 1	9	5	15,57	74	23.4	74.1	0 - 1
1 - 2	-9	8	15.21	76	22.5	72.5	1 - 2
2 - 3	0	8	16.25	78	23.2	73.8	2 - 3
3 - 4	-9	2	15.77	78	22.7	72.8	3 - 4
4 - 5	-9	1	15.41	81	21.6	70.9	4 - 5
5 ~ 6	0	3	15.64	ខន	21.5	70.6	5 - გ
6 - 7	1	13.	16.18	85	21.6	70.9	6 - 7
7 - 8	3	24	14,91	84	22,6	72.7	7 - 8
8 - 9	(), 1	9	20.01	82	26	78.8	8 - 9
9 - 10	1	11	19.21	75	26.9	80.4	9 - 10
10 - 11	0	9	20.39	72	28.7	83.7	10 - 11
11 - 12	2	9	20,03	69	29.2	B4.5	11 - 12
12 - 13	0	7	21.01	6¥	30	86.1	12 - 13
13 - 14	9	4	21.98	69	30.9	87.6	13 - 14
14 - 15	9	1	21.01	6 9	30	86.1	14 - 15
15 - 16	0	2	17.34	6 9	26.5	79.B	15 - 16
16 - 17	1	16	17.41	B7	22,5	72.5	16 - 17
17 - 18	1	18	17.44	88	22.3	72.2	17 - 18
18 - 19	o	14	17,01	89	21.7	71.1	18 - 19
19 - 20	0	10	17	94	20.8	69.4	19 - 20
20 - 21	• •	9	16,66	94	20.4	69.7	20 - 21
21 - 22	0	15	16,66	94	20.4	68.7	21 - 22
22 - 23	<u>i</u>	25	17.01	96	20.4	68.7	22 - 23
23 - 24	0	30	17.19	96	20.6	69	23 - 24

			JULY 4	, 1975 .			
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME
Hours	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/M**3	EDT HOURS
0 - 1	0.1	ं उ	90	o	2,30000E-2	8	0 - 1
1 - 2	0.1	ਤ	135	0	0.021	ន	1 - 2
2,-3	0.2	4	135	0.1	0.02	7	2 - 3
3 - 4 -	0.1	.4	90	0.1	0.029	11	3 - 4
4 - 5	0.1	1	0	0 .	0.027	10	4 - 5
5 - 6	0.1	1	45	0	0.028	10	5 - 6
6 - 7	0.2	1	45	०•इ	0.034	12	6 - 7
7 - 8	0,4	1 1	45	0.3	0.042	15	7 - 8
8 - 9	0+6	1	45	0.1	0.036	13	8 - 9
9 10	0.4	2	45	0.1	0.04	15	9 - 10
10 - 11	0.9	2	45	0.2	4,10000E-2	15	10 - 11
11 - 12.	0.7	3	45	0.2	0.045	17	11 - 12
12 - 13	0.9	4	90	0+1	0.05	18	12 - 13
13 - 14	1.1	4	90	0.1	0,059	22	13 - 14.
14 - 15	0.8	4	90	0.1	0.047	17	14 - 15
15 - 16	0.5	3	135	0.1	0.052	19	15 - 16
16 - 17	0.2	4 .	135	0.1	0,034	12	16 - 17
17 - 18	0.1	1	45	0.1	0+064	24	17 - 18
18 - 19	0.1	2	135	0.1	0.074	28	18 - 19
19 - 20	0.1	3	135	0.1	6.30000E-2	23	19 - 20
20 - 21	0.1	3	135	0.1	0.059	22	20 - 21
21 - 22	0.1	1	135	0.1	0.064	24	21 - 22
22 - 23	0,1	0.5	135	0.2	0,072	27	22 - 23
23 - 24	0,1	0.5	135	0.2	0.079	29	23 - 24

			JULY 5	, 1975			
TIHE EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4 ,	TOTAL SULFUR	RED. SULFUR	TIME
HOURS .	PPB	PPB	PPB	PPB	PPB	PPB	EDT HOURS
0 - 1	-9	-9	9	-9	3	O	0 - 1
1 - 2	-9	-9	-9	-9	4	o	1 - 2
2 - 3	-9	-9	-9	- 9	0	0	2 - 3
3 - 4	-9	-9	-9	-9	7	0	3 - 4
4 - 5	-9	~9	-9	-9	o	0	4 - 5
5 - 6	-9	-9	-9	-9	ø		5 - 6
6 - 7	-9	-9	-9	-9	0	0	6 - 7
7 - 8	-9	-9	-9	-9	o	0	7 - B
8 - 9	-9	-9	9	-9	ø	o	8 - 9
9 - 10	-9	-9	9	-9 :	0	0	7 - 10
10 - 11	-9	-9	-9	-9	o	0	10 - 11
11 - 12	-9	-9	-9	-9	0	0	11 - 12
12 - 13	72	2619	2376	243	•	0	12 - 13
13 - 14	64	2609	2334	275	o	0	13 - 14
14 - 15	68	2641	2185	455	•	0	14 - 15
15 - 16	59	2598	2238	359	O	0	15 - 16
16 - 17	88	2492	2175	317	O	0	16 - 17
17 - 18	77	2461	2133	328	0	o	17 - 18
18 - 19	91	2450	2122	328	0	٥	18 - 19
19 - 20	69	2482	2228	254	0	o ·	19 - 20
20 - 21	71	2471	2101	370	0	0	20 - 21
21 - 22	41	2736	2249	486	O	0	21 - 22
22 - 23	28	3276	2514 '	762	0	•	22 - 23
23 - 24	38	3689	3054	635	0	O	23 - 24

			JULY '5	, 1975			
TIME EDT	NO	NO2	ABS. HUM.	REL. HUH.	TEMP	TEMP	TIME EDT
HOUR	PPB	PPB	G/M^3	<i>"</i>	C	F	หมือนค
0 - 1	0	29	17.55	97	20.8	69.4	0 - 1
1 - 2	1	50	17.55	97	20.8	69·4	1 - 2
2 - 3	-9	. 43	17.55	97	20.8	69.4	2 - 3
3 - 4	-9	35 .	17.37	97	20.6	ፊ ዎ	3 - 4
4 - 5	-9	10	16,91	97 •	20.1	66.2	4 - 5
5 - 6	-9	2	16.67	97	19.9	67.8	5 - ბ
6 - 7	-9	-9	16	97	19.2	66.5	6 - 7
7 - 8	-9	-9	16.16	98	19.2	66.5	7 - 8
B - 9	-9	.	17.01	99	19.9	67.B	8 - 9
9 - 10	-9	3	17,91	98	20.9	69.7	9 - 10
10 - 11	-9	3	17.89	94	21.6	70.9	10 - 11
11 - 12	-9	-9	18.64	86	23.9	75	11 - 12
12 - 13	-9	-9	17.9	84	25.5	77.9	12 - 13
13 - 14	0	9	17,36	74	25.3	77.6	13 - 14
14 - 15	-9	4	18,27	72	24.7	80.1	14 - 15
15 - 16	-9	2	19.56	70	28.5	83.2	15 - 16
16 - 17	-9	3	18.34	45	28.6	83.5	16 - 17
17 - 18	-9	3	17.71	64	28.3	82.9	17 - 18
18 - 19	-9	4	17.48	65	27.8	82	18 - 19
19 - 20	-9	7	16.1	దద	26	78.8	19 - 20
20 - 21	0	9	15,03	70	23.7	74.7	20 - 21
21 - 22	-9	23	16.01	80	22.5	72.5	21 - 22
22 - 23	0	28	16,24	88	21,1	70	22 - 23
23 - 24	0	20	16.3	92	20.4	6B+7	23 - 24

	•		JULY 5	, 1975	•		
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	COH	B SCAT	MASS LOAD	TIME EDT
HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/M**3	HOURS
0 - 1	0.1	0	360	0.3	0.09	34	0 - 1
1 - 2	0.1	0	360	0.3	0.101	38	1 - 2
2 - 3	0.1	, o	340	0.3	0.101	38	2 - 3
3 - 4	0.1	1.	135	0.3	0.11	41	3 - 4
4 - 5	0.1	3	135	0.1	0.081	30	4 - 5
5 - 6	•	A	225	0.1	0.036	13	5 - 6
6 - 7	•	3 .	0	0.1	0.04	15	6 - 7
7 - 8	•	2	0	0.1	0.043	16	7 - 8
8 - 9	0.1	1	135	0.1	0.04	15	8 - 9
9 - 10	0.2	1	135	0.1	0.036	13	9 - 10
10 - 11	0.2	4	135	0.1	0.027	10	10 - 11
11 - 12	0.6	4	135	0.1	0.029	11	11 - 12
12 - 13	0.6	4	90	0,1	0.028	10	12 - 13
13 - 14	0.8	3	0	0.1	0.034	12	13 - 14
14 - 15	1	4	45	0.1	0.048	18	14 - 15
15 - 16	1.2	3	0	0.1	0.045	17	15 - 16
16 - 17	0.9	4	0	0.1	0.03B	14	16 - 17
17 - 18	0.6	3	0	0.1	0.04	15	17 - 18
18 - 19	0.5	3	45	0.1	0.038	14	18 - 19
19 - 20	0.3	3	45	0.1	0.034	12	19 - 20
20 - 21	0.1	2	45	0.1	0.047	17	20 - 21
21 - 22	0.1	1	45	0.1	0.05	19	21 - 22
22 - 23	0.1	0	90	0.1	0.061	23	22 - 23
23 - 24	0.1	0	90	0.1	0.061	23	23 - 24

			JULY 6	1975			
TIME EDT	DZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME
HOURS	PPB	PFB	PPB	PPB	PPB	PPB	EDT HOURS
0 - 1	8	3445	2747	698	6	0	0 - 1
1 - 2	3	3615	2852	762	٤	0	1 - 2
2 - 3	-9	3795	3054	741	7	0	2 - 3
3 - 4	-9	3932	3244	488	7	0	3 - 4
4 - 5	15	3191	2694	497	7	0	4 - 5
5 - á	20	2937	2492	444	9	0	5 - 6
6 - 7	.26	2927	2577	349	4	0	6 - 7
7 - 8	23	2916	2514	402	7	0	7 - 8
8 - 9	44	2821	2408	412	22	0	8 - 9
9 - 10	75	2979	2482	497	7	0	9 - 10
10 - 11	123	2874	2524	349	4	0	10 - 11
11 - 12	201	2863	2471	391	4	0	11 - 12
12 - 13	160	2736	2376	359	0	0	12 - 13
13 - 14	149	2884	2418	465	13	0	13 - 14
14 - 15	160	2694	2312	381	6	0	14 - 15
15 - 16	134	2641	2323	317	11	0	15 - 16
16 - 17	134	2630	2270	359	0	0	16 - 17
17 - 18	61	2672	2270	402	•	0	17 - 18
18 - 19	57	2810	2355	455	0	0	18 - 19
19 - 20	81	3054	2556	497	0	0	19 - 20
20 - 21	63	2810	2387	423	0	0	20 - 21
21 - 22	19	2683	2228	455	•	0	21 - 22
22 - 23	47	2694	2270	423	9	0	22 - 23
23 - 24	49	2715	2302	412	0	0	23 - 24

			JULY 6	1975			
TIME	NO	NO2	ABS. HUM.	REL. HUM.	TEMP .	тень	TIME
RUOH	PPB	PPB	G/H ⁻ 3	z ·	C	.	EDT HOUR
0 - 1	4	24	16.26	95	17.8	67+6	0 - 1
1 - 2	5	38	16.16	96	19.5	67.1	1 - 2
2 - 3	25	38	16.26	98	19.3	66.7	2 - 3
3 - 4	24	36	16.33	98	19.3	46.B	3 - 4
4 - 5	0	23	16.16	98	19.2	66,5	4 - 5
5 - 6	Q	14	15.83	98	18.8	65.9	5 - 6
6 - 7	1	14	15.67	98	18.4	65.6	6-7
7 ~ 8	2	13	17.37	98	20.4	68.7	7 - 8
8 - 9	2	8	22.97	96	25.7	78.2	8 - 9
9 - 10	1	14	20.14	85	25.5	77.9	9 - 10
10 - 11	1	4	19.59	75	27.2	81	10 - 11
11 - 12	0	3 •	20.13	70	29	84.2	11 - 12
12 - 13	-9	1	19.98	65	30+2	86.4	12 - 13
13 - 14	-9	1	19.47	61	30.9	87.6	13 - 14
14 - 15	-9	1	19.79	62	30.9	87.6	14 - 15
15 - 16	-9	1	20.48	61	31.9	89.3	15 - 16
16 - 17	-9	1	20.07	60	31.8	87.2	16 - 17
17 - 18	-9	-9	19.76	61	31.2	88,2	17 - 18
18 - 19	-9	9	18.8	62	30	85.9	18 - 19
19 - 20	-9	-9	17.94	63	28.8	83.9	19 - 20
20 - 21	-9	1	17.41	దద	27.4	81.3	20 - 21
21 - 22	-9	5	18.23	74	26.2	79•1	21 - 22
22 - 23	-9	8	17.77	78	24.8	76.6	22 - 23
23 - 24	~ ♥	4	. 17.77	78	24.8	76.6	23 - 24

PLYMOUTH PARK EXPERIMENT OLD DOMINION UNIVERSITY ATMOSPHERIC RESEARCH GROUP

			א אַבעונ	, 1975		wan Inan	TIME
TIME	SOLAR RAD	WIND SPEED	WIND DIR.	COH	B SCAT	MASS LOAD	EDT
EDT HOURS	LANGLIES	HILES /HR	DEGREES	UNITS	KM**-1	UG/H**3	HOURS
0 - i	0.1	Ö	360	0.2	7.30000E-2	27	0 - 1
1 - 2	0.1	O	340	0.2	0.074	28	1 - 2
2 - 3	0.1	o	360	0.3	0.074	28	2 - 3
3 - 4	0.1	o ·	360	0.3	0.081	30	3 - 4
4 - 5	0.2	Ö	360	0.2	0.049	26	4 - 5
	0.1	0	360	0.2	0.079	29	5 - 6
5 - 6 6 - 7	0.1	0	360	0.2	0.055	21	6 - 7
	0.4	.	90	0.2	0.056	21	7 - 8
7 - 8	0.6	2	90	0.2	0.061	23	B - 9
8 - 9 9 - 10	0.8	3	135	0.2	0.07	26	9 - 10
		3	225	0.1	0.067	25	10 - 11
10 - 11	1.1	4	270	0	6.30000E-2	23	11 - 12
11 - 12	1.2	3	315	0.1	0.055	20	12 - 13
12 - 13	1.2	4	0	0.1	0.055	20	13 - 14
13 - 14	0.5		315	0.1	5.30000E-2	20	14 - 15
14 - 15	0.8	4 5	270	0.1	0.054	20	15 - 16
15 - 16	0.8	5	225	0.1	0.054	20	16 - 17
16 - 17	0.7	5	225	0.1	0.05	18	17 - 18
17 - 18	0.6	. 6	225	0.1	0.054	20	18 - 19
18 - 19	0.5	3	180	0.1	5.30000E-2	20	19 - 20
19 - 20	0.2		180	0.1	0.052	19	20 - 21
20 - 21	0.2	2	180	0.1	0.05	19	21 - 22
21 - 22	0.1	3 4	180	0.1	5.30000E-2	20	22 - 23
22 - 23	0.1	3	180	0.1	5.30000E-2	20	23 - 24

			JULY 7	v 1975			
TIME EDT	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME
Hours	PPB	PPB	PPB	PPB	PPB	PPB	EDT HOURS
0 - 1	57	2524 .	2228	296	7	0	0 - 1
1 - 2	48	2524	2154	370	11	o	1 - 2
2 - 3	42	2387	2101	285	3	o	2 - 3
3 - 4	46	-9	-9	-9	ø	0	3 - 4
4 - 5	35	-9	-9	-9	0	0	4 - 5
5 - 6	44	-9	9	-9	0	0	5 - 6
6 - 7	42	-9	-9	9	o	0	6 - 7
7 - 8	29	-9	-9	-9	0	0	7 - 8
8 - 9	38	 9	-9	-9	•	0	8 - 9
9 - 10	31	-9	-9	-9	0	0	9 - 10
10 - 11	60	-9	-9	9	0	0	10 - 11
11 - 12	73	-9	-9	-9	0	O	11 - 12
12 - 13	70	-9	-9	- 9	O	0	12 13
13 - 14	63	-9	-9	-9	0	0	13 - 14
14 - 15	73	-9	-9	-9	0	0	14 - 15
15 - 16	60	-9	-9	-9	0	. o	15 - 16
16 - 17	58	-9	~9	-9	27	0	16 - 17
17 - 18	84	-9	m9	₩9	7	6	17 - 18
18 - 19	62	-9	-9	- 9	•	•	18 - 19
19 - 20	53	-9	- 9	-9	0	•	19 - 20
20 - 21	33	 9	-9	-9	•	0	20 - 21
21 - 22	2	-9	-9	-9	0	٥	21 - 22
22 - 23	1	-9	-9	-9	•	0	22 - 23
23 - 24	-9	-9	-9	-9	•	0	23 - 24
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			JULY 7	1975			
TIME EDT	מא	NO2	.MUH . 2EA	REL. HUM.	TEMP	TEMP	TIME
HOUR	FPB	PPB	G/M ⁻ 3	Z	C	F	EDT HOUR
0 - 1	-9	6	16.02	78	23	73.3	0 - 1
1 - 2	-9		15.26	77	22.3	72.2	1 - 2
2 - 3	-8	8	15,35	81	21.6	70.8	2 - 3
3 - 4	-9	1.	15.81	86	21	69.9	3 - 4
4 - 5	-9	1	16.48	88	21.3	70.4	4 - 5
5 - ბ	-9		16.61	88	21.5	.70.7	5 - 6
6 - 7	-9 ⁻⁹	5	16.92	88	21.8	71.2	6 - 7
7 - 8	1	15	17.41	87	22.5	72.5	7 - 8
8 - 9	2	10	18.12	87	23.2	73.8	8 - 9
9 - 10	3	17	18.65	89	23.3	74	9 - 10
10 - 11	1	3	17.54	94	20.9	69.7	10 - 11
11 - 12	•	6	18.65	98	21.6	70.9	11 - 12
12 - 13	-9	3	20,21	78	23	73.5	12 - 13
13 - 14	-9	2	22.31	97	25	76.9	13 - 14
14 - 15	-9	2	22.18	90	26,2	79.1	14 - 15
15 - 16	0	2	22.11	88	26.5	79.8	15 - 16
16 - 17	0	3	22.11	88	26.5	79.8	16 - 17
17 - 18	1	 5	24.58	85	29.1	84.4	17 - 18
18 - 19	1	3	21.03	76	28.3	82,9	18 - 19
19 - 20	1	4	19,66	76	27.1	80.7	19 - 20
20 - 21	1	15	18.77	80	25.3	77.6	20 - 21
21 - 22	3	51	18.5	82	24.6	76.3	21 - 22
22 - 23	14	41	18.86	87	23.9	75	22 - 23
23 - 24	. 5	34	19,19	94	22.9	73.1	23 - 24
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		AIMUSPHERIC	RESEARCH GROU	P.		**	
			JULY 7	1975	•	tion of the state	
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	сон	9 SCAT	MASS LOAD	TIME
HOURS	LANGLIES	MILES /HR	DEGREES	UNITS .	KM**-1	UG/M**3	EDT HOURS
0 - 1	0.1	2	225	0.1	0.043	16	0 - 1
1 - 2	0.1	1	225	0.1	0.045	17	1 - 2
2 - 3	0,1	2	270	0.1	0.045	17	2 - 3
3 - 4	0.1	1,	270	0.1	0.05	18	3 - 4
4 - 5	0.1	2	270	0.1	0.048	18	4 - 5
5 - 6	0.1	1	180	0.1	0.045	17	5 - 6
6-7	0.2	i	180	0.1	0.045	17	6 - 7
7 - B	0.2	2	180	0.1	0.055	21	7 - 8
8 - 9	0.2	3	180	0.3	0.05	18	8 - 9
9 - 10	0.2	3	135	0,3	0.059	. 22	9 - 10
10 - 11	0.3	6	135	0.1	0.031	11	10 - 11
11 + 12	0.3	2	135	0.1	0.029	11	11 - 12
12 - 13	0,6	4	135	0.1	2.20000E-2	8	12 - 13
13 - 14	0.9	4	180	0.1	0.025	9	13 14
14 - 15	0.6	ु इ . १८४४	135	0.1	0.028	10	14 - 15
15 - 16	0.6	3	180	0,1	0.029	11	15 - 18
16 - 17	0.5	3	180	0.2	0.028	10	16 - 17
17 - 18	0.5	2	405	0.2	0.031	11	17 - 18
18 - 19	0.4	2	405	0	0.026	9	18 - 19
19 - 20	0,2	1	405	•	0.026	9	19 - 20
20 - 21	0.2	1	405	0.2	0.03	11	20 - 21
21 - 22	0.1	1	405	0.2	0.031	11	21 - 22
22 - 23	0.1	0	405	0.2	0.034	12	22 - 23
	The second secon			A Committee of the Comm	and the second of the second o		

0.032

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23 - 24

			JULY 8	, 1975			
TIME	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME EDT
EDT HOURS	PPB	PPB	PPB	PPB	PPB	PPB	HOURS
0 - 1	4	-9	-9	-9	4	0	0 - 1
1 - 2	4	-9	-9	-9	7	0	1 - 2
2 - 3	6	- 9	-9	-9	4	O	2 - 3
3 - 4	22	-9	-9	-9	0	0	3 - 4
4 - 5	8	-9	-9	-9	0	0	4 - 5
5 - 6	16	-9	~9	-9	0	o	5 - 6
6 - 7	6	-9	-9	-9	Q .	0	6 - 7
7 - 8	11	-5	9	-9 .	O	0	7 - 8
8 - 9	20	-9	-9	-9	•	• 0	8 - 9
9 - 10	53	¹ . -9	-9	-9	0	0	9 - 10
10 - 11	90	-9	-9	-9	0	• •	10 - 11
11 - 12	107	-9	~ 9	-9	0	0	11 - 12
12 - 13	71	2514	2048	465	70	•	12 - 13
13 - 14	63	2503	2323	179	3	0	13 - 14
14 - 15	97	2514	2238	275	4	0	14 - 15
15 - 16	48	1857	1667	190	177	o .	15 - 16
16 - 17	129	-9	-9	-9	0	. •	16 - 17
17 - 18	45	-9	-9	-9	•	0	17 - 18
18 - 19	36	-9	-9	-9	O .	0	18 - 19
19 - 20	34	-9	-9	-9	•	, o	19 - 20
20 - 21	25	-9	-9	-9	O	0	20 ~ 21
21 - 22	18	-9	-9	-9	•	0	21 - 22
22 - 23	-9	-9	-9	-9	•	0	22 - 23
23 - 24	12	2492	1953	539	•	• •	23 - 24

			AULY 8	1975			
TIME	NO	NO2	ABS. HUM.	REL. HUM.	TEMP	: TEMP	TIME EDT
EDT HOUR	PPB	PPB	G/H ⁻ 3	z	C	F	HOUR
o - 1	i	24	19.3	98	22.2	72	0 - 1
1 - 2	1	24	19.22	98	22.2	71.9	1 - 2
2 - 3	• • •	16	18.92	98	21.9	71.4	2 - 3
3 - 4	0	10	18.84	9B	21.8	71.2	3 - 4
4 - 5	1	19	18,65	98	21.6	70.9	4 - 5
5 - 6	0	9	18,95	9B	21.9	71.4	5 - 6
6 - 7	0	17	19.3	98	22.2	72	6 - 7
7 - 8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18	22.1	9 8	24.6	. 76.3	7 - 8
8 - 9	2	15	23.85	94	26.7	80.1	B - 9
9 - 10	1	13	22.57	80	28.6	83.5	9 - 10
10 - 11	0	14	21,64	73	27.5	85.2	10 - 11
11 - 12	0	13	21.43	70	30.1	86.3	11 - 12
12 - 13	1	12	21.31	70	30	86.1	12 - 13
13 - 14	2	13	21.09	71	29.6	85+2	13 - 14
14 - 15	0	5	18.77	75	26.5	79.6	14 - 15
15 - 16	0	3	18.63	95	22.2	71.9	15 - 16
16 - 17	1	.5	22.1	97	24,8	76.6	16 - 17
17 - 18	i	10	21.75	90	25.8	78.5	17 - 18
18 - 19	0	5	19.52	84	25.1	77.2	18 - 19
19 - 20	1	4	21.12	70	25.3	77.6	19 - 20
20 - 21	0	7	20.93	71	25	76.9	20 - 21
21 - 22	0	16	20.34	92	24.3	75.7	21 - 22
22 - 23	12	33	20.61	96	23.7	74.7	22 - 23
23 - 24	•	29	20.96	99	23.5	74.3	23 - 24

			אור. В	1975	•	•	
TIME EDT HOURS	SOLAR RAD	WIND SPEED MILES /HR	WIND DIR. DEGREES	C O H	B SCAT	MASS LOAD	TIME EDT
0 - 1	0.2	1	405	0.2		UG/H**3	Hours
1 - 2	0.2	1	405		4.10000E-2	15	0 - 1
2 - 3	0.1	1		0.2	0.034	12	1 - 2
3 - 4	0.2		405	0.3	0.03	11	2 - 3
4 → 5		1,	405	0.3	0.034	12	3 - 4
	0.2	1	405	0.2	0.029	11	4 - 5
5 - ሪ	0.2	2	405	0.2	0.031	11	5 - 6
6 - 7	0.2	1	405	0.3	0.034	12	6 - 7
7 - 8	0.3	1	405	0.3	0.04	15	7 - 8
8 - 9	0.7	1	405	0.2	0.046	18	8 - 9
9 - 10	0.9	1	405	0.2	0.04	15	9 ~ 10
10 - 11	0.9	2	405	0.3	0.052	19	10 - 11
11 - 12	0.7	2	405	0.3	6.30000E-2	23	11 - 12
12 - 13	0.8	3	135	0.1	820.0	25	12 - 13
13 - 14	0.8	4	90	0.1	6.30000E-2	23	13 - 14
14 - 15	0.5	5	90	0.1	0,034	12	
15 - 16	0.2	6	45	0.1	0.031	11	14 - 15
16 - 17	0.8	3	90	0.1	0.025	9	15 - 16
17 - 18	0.8	3	135	0.1	2.30000E-2		16 - 17
18 - 19	0.2	4	180	0	0.034	8	17 - 18
19 - 20	0.2	2	180			12	18 - 19
20 - 21	0.2	•	360	0	0.04	15	19 - 20
21 ~ 22	0.2	0	÷ .	0.3	0.045	17	20 - 21
22 - 23	0,2		360	0.3	0.047	17	21 - 22
23 - 24	0.2		360	0.2	4.60000E-2	17	22 - 23
			360	0.2	0.045	17	23 - 24

			JULY 9	, 1975			
TIME	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME
EDT HOURS	PPB	PPB	PPB	PPR	PPB	PPB	EDT HOURS
0 - 1	26	3826	3392	434	0	0	0 - 1
1 - 2	32	4335	4080	254	0	0	1 - 2
2 - 3	35	2567	2238	328	0	0	2 - 3
3 - 4	26	2567	2334	232	1	0	3 - 4
4 - 5	22	2312	2005	307	1	0	4 - 5
5 - 6	22	2387	204B	338	4	0	5 - 6
6-7	20	2312	2037	275	1	0	6 - 7
7 - 8	38	2281	1910	370	6	•	7 - 8
8 - 9	28	2365	1804	561	51	o	8 - 9
9 - 10	18	2641	1889	751	77	o ,	9 - 10
10 - 11	36	2376	1910	465	47	0	10 - 11
11 - 12	48	2958	2567	391	78	o	11 - 12
12 - 13	61	2704	2312	391	0	0	12 - 13
13 - 14	64	258B	2228	359	4	•	13 - 14
14 - 15	64	2429	205B	370	4	0	14 - 15
15 - 16	67	2312	1931	381	14	0	15 - 16
16 - 17	64	2238	1794	444	9	0	16 - 17
17 - 18	61	2196	1794	402	7	0	17 - 18
18 - 19	44	2482	1889	592	30	•	18 - 19
19 - 20	26	2472	1931	561	0	•	19 - 20
20 - 21	23	2535	1868	666	0	0	20 - 21
21 - 22	28	2238	1925	412	٥	0	21 - 22
22 - 23	35	2365	1942	423	0	0	22 - 23
23 24	63	2545	2122	423	4	•	23 - 24

			JULY 9	1975		•	and the second s
TIME EDT	ОИ	N02	ABS. HUM.	REL. HUM.	TEMP	TEMP	TIME EDT
HOUR	FFR	FPB	G/M^3	z ·	C	F	Hour
0 - 1	1	18	20.09	78	22.9	73.3	0 - 1
1 - 2	0	7	19.81	98	22.7	72.8	1 - 2
2 - 3	-9	3	20.21	98	23	73.5	2 - 3
3 - 4	-9	2.	20.13	98	23	73.3	3 - 4
4 - 5	-9	1	20.01	97	23	73.5	4 - 5
5 - 6	-9	1	20.29	97	23.3	73.9	5 - 6
6 - 7	-9	-9	20.66	97	23.6	74.5	6 - 7
7 - 8	9	-9	21.87	96	24.8	76.6	7 - 8
8 - 9	-9		23,14	93	26.4	79.4	8 - 9
9 - 10	-9	-9	22.39	90	26.4	79.4	9 - 10
10 - 11	-9	-9	23.75	85	28,5	83.2	10 - 11
11 - 12	-9	-9	24.02	78	30,2	86.4	11 - 12
12 - 13	-9	-9	24.62	75	31,4	88.6	12 - 13
13 - 14	-9	-9	24.42	71	32.3	90.2	13 :- 14
14 - 15	-9	-9	24.76	70	32.8	91.1	14 - 15
15 - 16	-9 .	-9	24.05	88	32.8	91.1	15 - 16
16 - 17	-9	-9	24.59	48	33.3	91.9	16 - 17
17 - 18	-9	-7	23,26	67	32.5	90.5	17 - 18
18 - 19	-9	-9	20.39	68	29.8	85+6	18 - 19
19 - 20	-9	9	20.2	82	26.2	79.1	19 - 20
20 - 21	-9	-9	20,45	88	25.3	77.6	20 - 21
21 - 22	- 9	-9	21.32	90	25.5	77.9	21 - 22
22 - 23	-9	-9	20.36	88	25.1	77,1	22 - 23
23 - 24	-9	-9	19.77	88	24.5	76.2	23 - 24
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	•		JULY 9	, 1975			
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	СОН	B SCAT	MASS LOAD	TIME
Hours	LANGLIES	MILES /HR	DEGREES	STINU	KM**-1	UG/M**3	EDT HOURS
0 - 1	0.2	0	360	0.1	0.04	15	0 - 1
1 - 2	0.1	1 1	360	0.1	0.038	14	1 - 2
2 - 3	0.1	2 :	225	0.1	0.043	16	2 - 3
3 - 4	0.1	2.	225	0.1	0.05	18	3 - 4
4 - 5	0.1	2	225	0.1	0.052	19	4 - 5
5 - 6	0.2	2	225	0.1	5.30000E-2	,20	5 - s
6-7	0.2	3	225	0.2	0.048	18	6 - 7
7 - 8	0.3	4	225	0.2	0.04B	18	7 - 8
8 - 9	0.5	4	225	0.1	0+054	20	8 - 9
9 - 10	0.5	3	225	0.1	0.064	24	9 - 10
10 - 11	0.7	3	· 225	0.2	0.047	17	10 - 11
11 - 12	1.2	3 *	225	0.2	0.054	20	11 - 12
12 - 13	1.3	5	225	0.1	0.042	15	12 - 13
13 - 14	1.4	6	225	0.1	0.045	17	13 - 14
14 - 15	1.3	6	225	0.1	4.60000E-2	17	14 - 15
15 - 16	1.1	ద	225	0.1	4.90000E-2	18	15 - 16
16 - 17	0.9	5	225	0.2	0.059	22	16 - 17
17 - 18	ŭ•7	5	225	0.2	6.30000E-2	23	17 - 18
18 - 19	0.4	5	225	0.2	0.06	22	18 - 19
19 - 20	0.2	3	225	0.2	3.90000E-2	14	19 - 20
20 - 21	0.1	2	180	0.1	0.036	13	20 - 21
21 - 22	0.1	4	225	0.1	0.025	9	21 - 22
22 - 23	0.1	3	225	0.1	0.024	9	22 - 23
23 - 24	0.1	3	225	0.1	0.027	10	23 - 24

			JULY 10	, 1975			
TIHE	OZONE	TOTAL H.C.	METHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME EDT
EDT HOURS	PPB	PPB	PPB	PPB	PPB	PPB	HOURS
0 - 1	33	2323	1984	338	0	O	0 - 1
1 - 2	43	2461	2217	243	•	0	1 - 2
2 - 3	60	2875	2799	95	0	0	2 - 3
3 - 4	35	2228	1804	423	0	.	3 - 4
4 - 5	17	2545	1878	666	84	0	4 + 5
5 - 6	30	2228	1815	412	22	0	5 - 6
6 - 7	26	2302	1836	465	30	0	6 - 7
7 - 8	33	2323	1868	455	30	0	7 - B
8 - 9	27	2376	1836	539	4 5	0	8 - 9
9 - 10	38	2408	1825	582	98	0	9 - 10
10 - 11	30	3085	1984	1101	76	0	10 - 11
$(x_1, \dots, x_{n-1}, \dots, x_n)$	38	2767	1921	1048	125	0	11 - 12
11 - 12 12 - 13	37	2143	1773	370	7	0	12 - 13
	39	2154	1773	381	3	0	13 - 14
13 - 14	48	-9	-9	-9	0	0	14 - 15
14 - 15	50	- 9	- 9	-9	0	•	15 - 16
15 - 16	52	-9	-9	-9	0	0	16 - 17
16 - 17	52	- 9	-9	-9	1	. •	17 - 18
17 - 18	5 <i>2</i> . 56	 9	-9	-9	3	0	18 - 19
18 - 19		-9	- 9	-9	4	O	19 - 20
19 - 20	43 37	, 2514	1953	561	4	0	20 - 21
20 - 21	34	2440	1931	508	4	0	21 - 22
21 - 22	34	2397	1834	561	4	O	22 - 23
22 - 23	38	2228	1741	486	4	•	23 - 24
23 - 24	. 20						

18 - 17 -9 1 21.74 as 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23			•	JULY 10	, 1975			
HOUR PPR PPR PPR 6/73	TIME	סא	NO2	ABS. HUM.	REL. HUM.	TEMP	•	EDT
0-1 -9 -9 19.49 89 24.1 75.3 0-1 1-2 -9 -9 18.73 91 23 73.4 1-2 2-3 -9 -9 18.94 96 22.3 72.1 2-3 3-4 -9 -9 19.68 96 22.9 73.3 3-4 4-5 -9 -9 19.67 95 23.1 73.6 4-5 5-6 -9 -9 19.67 95 23.1 73.6 4-5 5-6 -9 -9 19.13 95 22.6 72.7 5-6 6-7 -9 -9 18.82 95 22.3 72.2 6-7 7-8 -9 -9 18.94 95 22.4 72.4 7-8 8-9 -9 -9 20.94 93 24.6 76.2 8-9 9-10 -9 -9 21.93 89 26.2 79.1 9-10 10-11 30 3 22.67 84 27.8 82.1 <th></th> <th>PPB</th> <th>PPB</th> <th>G/M[~]3</th> <th>χ .</th> <th>C</th> <th>F</th> <th>HOUR</th>		PPB	PPB	G/M [~] 3	χ .	C	F	HOUR
1 - 2 -9 -9 18.73 71 2-3 72.1 2-3 3 - 4 -9 -9 19.68 96 22.9 73.3 3-4 4 - 5 -9 -9 19.67 95 23.1 73.6 4-5 5 - 6 -9 -9 19.13 95 22.6 72.7 5-6 6 - 7 -9 -9 18.82 95 22.3 72.2 6-7 7 - 8 -9 -9 18.82 95 22.3 72.2 6-7 7 - 8 -9 -9 18.74 95 22.4 72.4 7-8 8 - 7 -9 -9 20.94 93 24.6 76.2 8-9 9 - 10 -9 -9 21.93 89 26.2 79.1 9-10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 1 24.97 77		-9	-9	19.49	89	24.1	75+3	0 - 1
3 - 4 -9 -9 19.68 96 22.9 73.3 3 - 4 4 - 5 -9 -9 19.67 95 23.1 73.6 4 - 5 5 - 6 -9 -9 19.13 95 22.6 72.7 5 - 6 6 - 7 -9 -9 18.82 95 22.3 72.2 6 - 7 7 - 8 -9 -9 18.94 95 22.4 72.4 7 - 8 8 - 9 -9 -9 18.94 95 22.4 72.4 7 - 8 8 - 9 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9	1 - 2	-9	~9	18.73	91	23	73.4	
3 - 4 -9 -9 19.67 95 23.1 73.6 4 - 5 5 - 6 -9 -9 19.13 95 22.6 72.7 5 - 6 6 - 7 -9 -9 19.13 95 22.3 72.2 6 - 7 7 - 8 -9 -9 18.82 95 22.4 72.4 7 - 8 8 - 9 -9 -9 18.94 95 22.4 72.4 7 - 8 8 - 9 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.62 <td>2 - 3</td> <td>-9</td> <td>-9</td> <td>18.94</td> <td>76</td> <td>22.3</td> <td>72.1</td> <td></td>	2 - 3	-9	-9	18.94	76	22.3	72.1	
4 - 5 -9 -9 19.67 75 22.6 72.7 5 - 6 5 - 6 -9 -9 19.13 95 22.3 72.2 6 - 7 6 - 7 -9 -9 18.82 95 22.3 72.2 6 - 7 7 - 8 -9 -9 18.94 95 22.4 72.4 7 - 8 8 - 9 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.62 </td <td>3 + 4</td> <td>-9</td> <td>-9,</td> <td>19,68</td> <td>96</td> <td>22.9</td> <td>73.3</td> <td>3 - 4</td>	3 + 4	-9	-9,	19,68	96	22.9	73.3	3 - 4
5 - 6 -9 -9 19.13 73 73 73 73 74 75 6 - 7 77 78 -9 -9 18.82 95 22.3 72.4 7 - 8 7 - 8 7 - 8 8 - 9 72.4 7 - 8 8 - 9 7 - 8 8 - 9 9 - 10 70 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 9 - 10 9 - 10 9 - 10 9 - 10 9 - 10 9 - 10 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8	4 - 5	-9	-9	19.67	95	23.1	73.6	4 - 5
6-7 -9 -9 18.82 95 22.3 72.2 6-7 7-8 -9 -9 18.94 95 22.4 72.4 7-8 8-9 -9 -9 20.94 93 24.6 76.2 8-9 9-10 -9 -9 21.93 89 26.2 79.1 9-10 10-11 30 3 22.67 84 27.8 82.1 10-11 11-12 -9 2 23.34 78 29.7 85.5 11-12 12-13 -9 2 24.9 77 31.2 88.1 12-13 13-14 -9 1 24.76 75 31.5 88.8 13-14 14-15 -9 1 24.61 72 32.4 90.2 14-15 15-16 -7 1 24.62 70 32.7 90.9 15-16 16-17 -9 1 23.87 68 32.7 90.9 17-18 18-19 -9 1 23.87 68 32.7 </td <td>5 - 6</td> <td>-9</td> <td>-9</td> <td>19.13</td> <td>95</td> <td>22.6</td> <td>72.7</td> <td>5 - 6</td>	5 - 6	-9	- 9	19.13	95	22.6	72.7	5 - 6
7 - 8 -9 -9 18.94 95 22.4 72.4 7 - 8 8 - 9 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.61 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1		-9	-9	18.82	95	22.3		6 - 7
8 - 9 -9 -9 20.94 93 24.6 76.2 8 - 9 9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 62.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2		-9	-9	18.94	95	22.4	- 72.4	7 - 8
9 - 10 -9 -9 21.93 89 26.2 79.1 9 - 10 10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1			-9	20.94	93	24+6	76.2	8 - 9
10 - 11 30 3 22.67 84 27.8 82.1 10 - 11 11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 23.87 68 30.7 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1	9 - 10	-9	-9	21.93	89	26.2	79.1	9 - 10
11 - 12 -9 2 23.34 78 29.7 85.5 11 - 12 12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1	• * * * * * * * * * * * * * * * * * * *	30	3	22.67	84	27.8	82.1	10 - 11
12 - 13 -9 2 24.9 77 31.2 88.1 12 - 13 13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 22 - 23 -9 1 20.65 78 27.5 81.5 23 - 24			2	23+34	78	29.7	85.5	11 - 12
13 - 14 -9 1 24.76 75 31.5 88.8 13 - 14 14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 20 - 21 -9 1 20.65 78 27.5 81.5 22 - 23		-9	2	24.9	77	31.2	88.1	12 - 13
14 - 15 -9 1 24.81 72 32.4 90.2 14 - 15 15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 24	* * * * * * * * * * * * * * * * * * *		1	24.76	75	31.5	88.8	13 - 14
15 - 16 -9 1 24.62 70 32.7 90.9 15 - 16 16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 48 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23			1	24.81	72	32.4	90.2	14 - 15
16 - 17 -9 1 25.06 71 32.8 91.1 16 - 17 17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23		-9	1	24.62	70	32.7	90.9	15 - 16
17 - 18 -9 1 23.87 68 32.7 90.9 17 - 18 18 - 19 -9 1 21.74 68 30.9 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 20 - 21 -9 1 20.65 78 27.5 81.5 22 - 23 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23			i	25.06	71	32.8	91.1	16 - 17
18 - 17 -9 1 21.74 48 30.7 87.7 18 - 19 19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 10 - 77 82 25.8 78.4 23 - 24			· · · · · 1 · · · ·	23.87	48	32.7	90.9	17 - 18
19 - 20 -9 2 20.48 70 29.3 84.7 19 - 20 20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 10 77 82 25.8 78.4 23 - 24		•	1	21.74	48	30.9	87.7	18 - 19
20 - 21 -9 1 20.12 72 28.5 83.2 20 - 21 21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23 10.77 82 25.8 78.4 23 - 24		•	2	20·4B	70	29.3	84.7	19 - 20
21 - 22 -9 1 20.28 75 27.9 82.2 21 - 22 22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23			. 1	20.12	72	28.5	83.2	20 - 21
22 - 23 -9 1 20.65 78 27.5 81.5 22 - 23		-9	1	20.28	75	27.9	82.2	21 - 22
25.8 78.4 23 - 24		-9	1	20.45	78	27.5	81.5	22 - 23
	•	-9	• 1	19.77	82	25.8	78.4	23 - 24

			JULY 10	1975	•	•	
TIME EDT	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT .	MASS LOAD	TIME
HOURS	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/H**3	EDT HOURS
0 - 1	0.2	3	225	0.1	2.30000E-2	8	0 - 1
1 - 2	0.2	6	180	0.1	0.027	10	
2 - 3	0.2	4	225	0.2	0.036	13	1 - 2 2 - 3
3 - 4	0.2	з,	225	0.2	0.043	16	
4 - 5	0.2	4	225	0.1	0.069	26	3 - 4
5 - 6	0.2	3	225	0.1	0.061		4 - 5
. 6 - 7	0.2	4	225	0.1	0.067	23	5. – გ
7 - 8	0.3	4	225	0.1	0.058	25	6-7
8 - 9 .	0.5	3	225	0.2		22	7 - 8
9 - 10	0.8	3	225	0.2	5.70000E-2	21	8 - 9
10 - 11	1.1	3	225		5.70000E-2	21	9 - 10
11 - 12	1.2	4	225	0.2	0.062	23	10 - 11
12 - 13	1.2	්ජි	225	0.2	0.043	16	11 - 12
13 - 14	1.1	- ه		0	0.054	20	12 - 13
14 - 15	1.2		225	0	0.054	21	13 - 14
15 - 16	1.1	6	225	0.1	0.054	20	14 - 15
16 - 17	0.9	5	225	0.1	0.055	21	15 ~ 16
17 - 18	0.7	5	225	0.1	5.10000E-2	19	16 - 17
18 - 19	0.4	5	225	0.1	4.60000E-2	17	17 - 18
19 - 20	0.2	5	225	0.1	0.045	17	18 - 19
20 - 21		4	225	0.1	5.10000E-2	19	19 - 20
21 - 22	0.2	. 3	225	0.2	0.062	23	20 - 21
	0.2	3	225	0.2	0.076	28	21 - 22
22 - 23	0.2	4 2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	225	0.1	0.084	32	22 - 23
23 - 24	0.2	4	225	0.1	0.079	29	23 - 24

			JULY 11	, 1975			•
TIME EDT	OZONE	TOTAL H.C.	KETHANE	H.CCH4	TOTAL SULFUR	RED. SULFUR	TIME EDT
Hours	PPB	PPB	PPB	PPB	PPB	PPB	Hours
0 - 1	31	2503	1963	539	51	0	0 - 1
1 - 2	47	2249	1942	307	9	0	1 - 2
2 - 3	46	2111	1847	264	7	O	2 - 3
3 - 4	41	2207	1878	328	22	0	3 - 4
4 - 5	40	2334	1804	529	26	0	4 ~ 5
5 - 6	40	2492	1878	614	3	0	5 - 6
6 - 7	22	2408	1868	539	7	0	6 - 7
7 - 8	29	2821	2069	751	7	0	7 - 8
8 - 9	22	3816	2672	1143	13	ō	8 - 9
9 - 10	16	2387	1942	444	11	. 0	9 - 10
10 - 11	19	2927	1910	1016	6	0	10 - 11
11 - 12	23	2207	1815	391	3	0	11 - 12
12 - 13	~9	-9	- 9	~9	0	0	12 - 13
13 - 14	-9	-8	-9	- 9	0	o	13 - 14
14 - 15	-9	-9	-9	-9	٥	•	14 - 15
15 - 16	-9	-9	-9	-9	o	•	15 - 16
16 - 17	-9	-9	-9	-9	•	•	16 - 17
17 - 18	-9	-9	-9	-9	٥	•	17 - 18
18 - 19	-9	-9	-9	-9	0	0	18 - 19
19 - 20	-9	-9	-9	9	•	•	19 - 20
20 - 21	9	- 9	-9	-9	o	•	20 - 21
21 - 22	-9	-9	- 9	-9	0	0	21 - 22
22 - 23	-9	-9	-9	-9	0	0	22 - 23
23 - 24	-9	-9	- 9	-9	٥	0	23 - 24

			JULY 11	, 1975	•		
TIME	NO:	NO2	ABS. HUH.	REL. HUM.	TEMP	TEMP	TIME
HOUR	RPB	PPB	G/H"3	7	c	F	EDT HOUR
0 - 1	-9	1	18.24	85	23.7	74.7	0 - 1
1 - 2	-9	1	18.15	95	21.7	71.1	1 - 2
2 - 3	-9	1	18,24	97	21.4	70+6	2 - 3
3 - 4	-9	-9.	17.94	97	21.1	70	3 - 4
4 ~ 5	-9	1	18.28	98	21.3	70.3	4 - 5
5 - 6	-9	-9	18.09	98	21.1	70	5 ~ á
6-7	-9	1	17.91	7 8	20.9	69.7	6 - 7
7 - 8	-9	1	17.69	98	20.7	69.3	7 - 8
8 - 9	-9	$-\mathcal{I}_{i,j}^{(i)} = 1^{i,j} - 1^{i,j} = \emptyset$	17.98	98	21	69.8	8 - 9
9 - 10	-9	1	18,79	97	22.1	71.8	9 - 10
10 - 11	-9	2	21.05	95	24.3	75.7	10 - 11
11 - 12	-9	1	21.42	92	25.2	77.3	11 - 12
12 - 13	-9	-9	-9	-9	-9	9	12 - 13
13 - 14	-9	~ 9	-9	-9	-9	-9	13 - 14
14 - 15	-9	-9	-9	- 9	-9	-9	14 - 15
15 ~ 16	-9	-9	-9	-9	-9	9	15 - 16
16 - 17	-9	-9	- 9	-9	-9	-9	16 - 17
17 - 18	-9	-9	- 9	-9	-9	-9	17 ~ 18
. 18 - 19	-9	-9	- 9	-9	-9	-9	18 - 19
19 - 20	-9	-9	-9	-9	-9	-9	19 - 20
20 - 21	-9	-9	-9	-9	-9	- 9	20 - 21
21 - 22	- 9	-9	-9	-9	~9	-9	21 - 22
22 - 23 23 - 24	-9	~9	-9	-8	-9·	-9	22 - 23
- 40 - 24	-9	-9	-9	- ¢	-9	-9	23 - 24

			JULY 11	, 1975		:	
	SOLAR RAD	WIND SPEED	WIND DIR.	сон	B SCAT	MASS LOAD	TIME EDT
TIME EDT	LANGLIES	MILES /HR	DEGREES	UNITS	KM**-1	UG/H**3	HOURS
HOURS	0.2	5	225	0.2	0.086	32	0 - 1
0 - 1	0.2	3 · · · · ·	225	0.2	0,048	18	1 - 2
1 + 2	0.2		225	0.1	0.035	13	2 - 3
2 - 3		4,	225	0.1	0.03	11	3 - 4
3 - 4	0.2	3	225	0.1	0.031	11	4 - 5
4 - 5	0.2	%	225	0.1	0.028	10	5 - 6
5 - 6	0.2	1	225	0.1	0.024	9	6 - 7
6 - 7	0.2	.	360	0.1	0.03	. 11	7 - 8
7 - 8	0.2	0	360	0.1	3.90000E-2	14	8 - 9
8 - 9	0.3	0	360	0.1	0.033	12	9 - 10
9 - 10	0.4	0		0.1	0.03	11	10 - 11
10 - 11	0.5	1	180	0.1	0.027	10	11 - 12
. 11 - 12	0.4	0	360		-9	-9	12 - 13
12 - 13	-9	-9	-9	-9	9	-9	13 - 14
13 - 14	-9	-9	- 9	- 9		-9	14 - 15
14 - 15	-9		-9	-9		-9	15 - 16
15 - 16	-9	-9	-8	-9	-9	-9	16 - 17
16 - 17	-9	-9	-9	~ •≎	-9	- 9	17 - 18
17 - 18	-9	-9	-9	-9	-9	- 7 -9	18 - 19
18 - 19	-9	-9	-9	-9	-9		19 - 20
19 - 20	-9	-9	-9	-9	-9	- 9	20 - 21
20 - 21	-9	9	-9	-9	-9	- 9	21 - 22
21 - 22	-9	 9	-9	-9	- 9	- 9	22 - 23
22 - 23	-9	 9	-9	-9	-9	-9	23 - 24
23 - 24	-9	-9	- 9	-9	-9	-9	20 - 24

APPENDIX B

Frequencies of Observations

Units are same as in Appendix A.

WIND DIRECTION
THE MAXIMUM VALUE OF THE DATA IS 405
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 405
THERE ARE 516 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 161.686
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 BINS

LOWER	NUMBER	+ 1.		UFFER	
0	29			20.25	
20,25	0			40.5	
40.5	73	*.		60.75	
60.75	0	:	:	81	11
S1 .	57			101.25	
101.25	0			121.5	17
121,5	129			141.75	
141.75	0			162	
162	61	1.5		182.25	
182.25	0			202.5	
202.5	0	1.4.		222.75	
222.75	87		:	243	
243	0		7-2	263.25	
263.25	17			283.5	
283.5	õ			303.75	-11
303.75	24			324	
324	ō			344.25	
344.25	20			364.5	
364.5	ō	1.5		384.75	
384.75	19			405	

OZONE	READINGS	÷						
TOTAL	HYDOCARBONS						:	
METHANE	HYDROCARBONS		•	٠.				
TOTAL	SULFUR				•		, i	
REDUCED	SULFUR							
NITRIC	OXIDE			•		-:		
	DNCENTRATIONS							
ARSOLUTE	HUMIDITY							
	HUHIDITY							
TEMPERATI	JRE CELSIUS			4 E.				
SOLAR	RAD	* - *						· · · · ·
MINI 9	SPEED .							
	BIRECTION					1.		
THE MAXI	YUM VALUE OF THE	በ ስፐስ	IS	405				
THE HINI	IUM OF THE ABS.	VALUES	OF	THE	ΙΑΤΑ	IS	0	
	OF VALUES IS							
THERE ARE	516 NON-NEGAT	IVE VA	LUES	3				
THE AVE	RAGE VALUE IS	161.68	6					1
THIS	COUNTS ONLY POSI	TIVE V	ALUE	ES IN	I THE	AVE	RAGI	EIII
INPUT THE	NUMBER OF BIN	3 TO S	CRT	DATA	1			
70/0/9				:			-	

NUMBER	UPPER
102	45
130	90
186	135
190	1.80
148	225
104	270
41	315
44	360
39	405
	102 130 186 170 148 104 41

SOLAR RAD THE MAXIMUM VALUE OF THE DATA IS 1.4 THE MINIMUM OF THE ABS. VALUES OF THE DATA IS O THE RANGE OF VALUES IS 1.4 THERE ARE 512 NON-NEGATIVE VALUES THE AVERAGE VALUE IS 0.384375
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!

HISTOGRAM IS TO 20 BINS

—: · · ·
WIND SPEED
THE MAXIMUM VALUE OF THE DATA IS 8
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS O
THE RANGE OF VALUES IS 8
THERE ARE 516 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 2,94574
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!
HISTOGRAM IS TO 20 RINS

LOVER	NUMBER	UPPER		LOWER	NUMBER	UPPER
0	115	7+00000E-2		C	38	
7.00000E-2	111	0.14		0.4	28	0.4
0.14	64	· ·		0.8		0.8
0.21	Ω ⁴	0.21		•	70	1.2
	<u>.</u>	0.28		1.2	0	1.6
0.28	21	0.35		1.6	ዎዕ :	2
0.35	22	0.42		2	90	2.4
0.42	: O	0+49		2.4	O T	2.8
0.49	24	0.56		2.8	92	3.2
0.56	26	0.63	•		0	···· 3.6-
0.43	16	0.7		3.6	83	A
0.7	16	0.77	•	4	. 83	~, ^ ^
0.77	$\overline{22}$	0.84		4.4		4.4
0.84	19			•	0	4.8
0.91	17	0.91		4.8	స్త్రార	5.2
	Ų.	0.98		5.2	O .	5.4
0.58	14	1.05		5.4	47	6
1.05	15	1.12		<u>ა</u>	47 :	6.4
1.12	· O	1.19		6+4	0	6.8
1.17	24	1.26	* * * * * * * * * * * * * * * * * * * *	చ∙8	1.0	7.2
1.26	16	1.33		7.2	o ·	7.6
1.33	3	1.4		7.6	ž	8

RELATIVE YTIGIMUH THE MAXIMUM VALUE OF THE DATA IS 99 THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1 THE RANGE OF VALUES IS 98 THERE ARE 505 NON-NEGATIVE VALUES THE AVERAGE VALUE IS 78.0416 THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!

HISTOGRAM IS TO 20 BINS

:		NUMBE	R			UPPER			
		.0			٠.	5.9			•
		Ο.	5.			10.8			
		0		144		15.7			
		0				20.6			
	-	0				25.5			,
		Ω -				30.4			
7.		0	:			35.3			
		0				40,2			
		0				45.1			
				:		50			
	+;					54.9			
1.				:		52.8			
-		32		1		64.7			
		48		•		67,6			
		65		•		74.5			
		56				79 - 4			
					٠.	84.3			
						. , ,			
		75	•		:	99	5		
			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 2 2 8 3 8 3 2 4 8 6 5 6 6 6 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8	0 5.9 0 10.8 0 20.6 0 25.5 0 30.4 0 35.3 0 40.2 45.1 50 50 50 50 50 50 50 50 50 50	0 5.9 0 10.8 0 20.6 0 20.6 0 25.5 0 30.4 0 35.3 0 40.2 0 45.1 3 50 22 54.9 38 59.8 32 64.7 48 69.6 55 74.5 56 79.4 62 84.3 59 89.2 48 94.1	0 5.9 0 10.8 0 20.6 0 25.5 0 30.4 0 35.3 0 40.2 0 45.1 3 50 22 54.9 38 59.8 32 64.7 48 69.6 65 74.5 56 79.4 62 84.3 59 89.2 48 94.1

CELSIUS TEMPERATURE THE MAXIMUM VALUE OF THE DATA IS 35.8 THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1 THE RANGE OF VALUES IS 34.8 THERE ARE 516 NON-NEGATIVE VALUES THE AVERAGE VALUE IS 24.8517 THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!! HISTOGRAM IS TO 20 BINS

1 0 2.74 2.74 0 4.48 4.48 0 6.22 6.22 0 7.96 7.96 0 9.7 9.7 0 11.44 11.44 0 13.18 13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 30.58 35.8 30.58 25 32.32 34.06 35.8	LOWER	NUMBER	UPPER
2.74 0 4.48 4.48 0 6.22 6.22 0 7.96 7.96 0 9.7 9.7 0 11.44 11.44 0 13.18 13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 30.58 25 32.32 32.32 19 34.06	1	0	2.74
4.48 0 6.22 6.22 0 7.96 7.96 0 9.7 9.7 0 11.44 11.44 0 13.18 13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	2.74	0	
7.96 0 9.7 9.7 0 11.44 11.44 0 13.18 13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	4,48	0	
7.96 0 9.7 9.7 0 11.44 11.44 0 13.18 13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	6.22	0	7.96
11.44 0 13.18 13.18 0 14.72 14.72 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	7.96	0	
13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	9.7	0	11.44
13.18 0 14.92 14.92 9 16.66 16.66 13 18.4 18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	11.44	O	13.18
16,66 13 18.4 18,4 36 20.14 20,14 59 21.88 21,88 106 23.62 23,62 79 25.36 25,36 69 27.1 27.1 47 28.84 28,84 48 30.58 30.58 25 32.32 32,32 19 34.06	13.18	0	
18.4 36 20.14 20.14 59 21.88 21.88 106 23.62 23.62 79 25.36 25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	14.72	9	16.66
20,14 59 21,88 21,88 106 23,62 23,62 79 25,36 25,36 69 27,1 27,1 47 28,84 28,84 48 30,58 30,58 25 32,32 32,32 19 34,06	16,65	1.3	18.4
21,88 106 23.62 23,62 79 25.36 25,36 69 27.1 27.1 47 28.84 28,84 48 30.58 30,58 25 32.32 32,32 19 34.06	18.4	36	20.14
23,62 79 25,36 25,36 69 27,1 27,1 47 28,84 28,84 48 30,58 30,58 25 32,32 32,32 19 34,06	20:14	59	21.88
25.36 69 27.1 27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	21,88	106	23.62
27.1 47 28.84 28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	23,62	79	25,34
28.84 48 30.58 30.58 25 32.32 32.32 19 34.06	25.36	69	27.1
30.58 25 32.32 32.32 19 34.06	27.1	47	28.84
32.32 19 34.06	28.84	48	30.58
	30.58	25	32,32
34.06 6 35.8	32.32	19	34.06
	34.04	6	35.8

7

NO2 CONCENTRATIONS
THE MAXIMUM VALUE OF THE DATA IS 51
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1
THE RANCE OF VALUES IS 50
THERE ARE 457 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 10.3786
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!
HISTOGRAM IS TO 20 BINS

ABSOLUTE HUMIDITY
THE MAXIMUM VALUE OF THE DATA IS 25.06
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1
THE RANGE OF VALUES IS 24.06
THERE ARE 505 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 17.7729
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 DINS

LOWER NUMBER UPPER LOWER NUMBER UPPER 1 140 3.5 1 0 2.203 3.5 77 6 2.203 0 3.406 6 58 8.5 3.406 0 4.609 8.5 43 11 4.609 0 5.812 11 32 13.5 5.812 0 7.015 13.5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.421 18.5 15 21 9.421 0 10.63 21 12 23.5 10.624 7 11.83 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23 26 8 28.5 13.03 45 14.23 28 15.43 14.233 28 15.43	6 7 2
3.5 77 6 2.203 0 3.406 6 58 8.5 3.406 0 4.609 8.5 43 11 4.609 0 5.812 11 32 13.5 5.812 0 7.015 13.5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.421 18.5 15 21 9.421 0 10.63 21 12 23.5 10.624 7 11.83 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	9 2
6 58 8.5 3.406 0 4.609 8.5 43 11 4.609 0 5.812 11 32 13.5 5.812 0 7.015 13.5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.423 18.5 15 21 9.421 0 10.63 21 12 23.5 10.624 7 11.83 23.5 14 26 11.827 22 13.03 25 8 28.5 13.03 45 14.23	2
8.5 43 11 4.609 0 5.812 11 32 13.5 5.812 0 7.015 13.5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.425 18.5 15 21 9.421 0 10.62 21 12 23.5 10.624 7 11.82 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	2
11 32 13.5 5.812 0 7.015 13.5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.425 18.5 15 21 9.421 0 10.62 21 12 23.5 10.624 7 11.82 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	
13,5 33 16 7.015 0 8.218 16 38 18.5 8.218 0 9.425 18.5 15 21 9.421 0 10.63 21 12 23.5 10.624 7 11.85 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	
16 38 18.5 8.218 0 9.421 18.5 15 21 9.421 0 10.63 21 12 23.5 10.624 7 11.83 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	3
18.5 15 21 9.421 0 10.62 21 12 23.5 10.624 7 11.62 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	
21 12 23.5 10.624 7 11.83 23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23 14 26 13.03 45 14.23	
23.5 14 26 11.827 22 13.03 26 8 28.5 13.03 45 14.23	
26 8 28.5 13.03 45 14.2	
20 00 00 00 00 00 00 00 00 00 00 00 00 0	
The state of the s	
10 000	
- 40 (4)	
41 8 43.5 20.248 52 21.4	
43.5 1 46 21.451 24 22.65	
46 0 48.5 22.654 10 23.85	
48.5 2 51 23.657 13 25.06	5

REDUCED SULFUR
THE MAXIMUM VALUE OF THE DATA IS 6
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 6
THERE ARE 496 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 1.89919
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE

THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!! HISTOGRAM IS TO 20 BINS

LOWER	e de la companya de		١	UMBER			UPPER	
0				324			0.3	
0,3				0			0.4	
0.6	1.5			0	2.0		0.9	
0.9	1.	1.	4.	0			1.2	
1.2				0		: "	1.5	
1.5		100		0	4		1.8	•
1.8				0		- 1	2.1	
2,1			- 1	0			2.4	4
2,4				0			2.7	i
2.7	4.			0		$\gamma_{i_1,\dots,i_{r-1}}$	3	
3		199	, f	0	1		3.3	
3.3	:	- 1		0			∵ 3₊ፊ	
3,6				0			র∙প	
3.9		1	1	0	1.		4.2	
4.2			1.	0			4.5	-
4.5	:	11.	10	0			4.8	
4.8				90		100	5.1	
5,1		- 41 4 - 11 4		0			5.4	
5.4	100			0			5.7	
5.7			٠.	82	1.1		6	
				:		1.4		1

NITRIC OXIDE
THE MAXIMUM VALUE OF THE DATA IS 67
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 67
THERE ARE 230 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 2.85652
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 BINS

				1.32
LOWER		NUMBE	₹	UFFER
Ö	1.0	190		3,35
3.35		13		6,7
67		14		10.05
10.05		4		13.4
13,4		2		14.75
16.75		1		20.1
20.1		Ø		23.45
23.45		2		26.8
26.8		1		30.15
30.15	* .	0		33.5
33.5	*	Ö		36.85
36.85		1		40.2
40.2		0		43+55
43.55		0		46+9
46.9		0		50.25
50.25		0		53.6
53.6		i		- 56.95 ·
56,95		0		60.3
60.3		O		63.65
63.65		1		67

METHANE HYDROCARBONS
THE MAXIMUM VALUE OF THE DATA IS 9977
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1
THE RANGE OF VALUES IS 9976
THERE ARE 321 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 2171.11
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 BINS

LOWER	NUMBER	UPPER
1	1	497.B
499.8	0	998.6
998.6	21	1497.4
1497.4	144	1996.2
1996.2	79	2495
2495	43	2773.6
2993.8	21	3492.6
3492.6	8	3991.4
3991.4	2	4490.2
4490.2	1	4989
4989	ō.	5487.8
5487.8	0	5983.6
5984.6	0	6485.4
6485.4	Ō	6984.2
6984.2	ō	7483
7493	Ö	7981.8
7981.8	Ö	8480.6
8450.6	ō	8979.4
8979.4	ŏ	9478.2
-9478,2		9977

TOTAL SULFUR
THE MAXIMUM VALUE OF THE DATA IS 177
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 177
THERE ARE 518 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 5.67761
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 BINS

LOWER	NUMBER		
0		*	UPPER
•	426		8.85
8.85	56		17.7
17+7	9		26.55
26.55	7		
35.4	í		35.4
44.25		-	44.25
	<u>చ</u> ్చ		53.1
53.1	2		61.95
61.95	3		70.8
70.8	3		79,65
79.35	1		
88.5	ō		88.5
97:35	-		97.35
	1	•	103.2
106.2	0		115.05
115.05	0		123.9
123.9	1		132.75
132.75	. 0		
141.6	Ö		141.6
150.45	-		150.45
	0		159.3
159.3	0	•	168.15
168.15	2		177

TEMPERATURE FAHRENHEIT
THE MAXIMUM VALUE OF THE DATA IS 96.5
THE MINIMUM OF THE ADS. VALUES OF THE DATA IS 1
THE RANGE OF VALUES IS 95.5
THERE ARE 516 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 76.73
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
INPUT THE NUMBER OF BINS TO SORT DATA

LOUER		NUMBER	•	UPPER	
1		0		4.82	
4.82	- 11	0		8.54	
2.64		0		12.46	
12.46		0		16.28	
15.23		0		20.1	
20.1		0		23.92	
23.92		0		27.74	
27.74		0		31.56	
31.56		0		35.38	
35.38		O		39.2	
39.2	21.	0		43.02	
43.02		. 0		46.84	
46.84		0		50+46	
50.66 —		0		54.48-	
54.48		0		58.3	
58.3		9		62.12	
52.12		16	: 1	65,94	
á5.94		57		69.76	
69.76		116		73,58	
73.58	. •	96		77.4	
77.4		85		81.22	
81.22		60	1	85.04	
85.04		48		88.86	
88.86		21		92.48	
92+68		8	÷	96.5	

MASS LOADING
THE MAXIMUM VALUE OF THE DATA IS 82
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 82
THERE ARE 516 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 12.8178
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
INPUT THE NUMBER OF BINS TO SORT DATA
?25\52\30

LOWER	NUMBER	UPPER
0	15	2.73333
2.73333	ద5	5.46567
5.43667	113	8.2
8.2	58	10.9333
10,9333	84	13.6667
13,6667	42	16.4
16.4	54	19+1333
19,1333	24	21.8367
21.8367	25	24.6
24.6	10	27.3333
27.3333	9	30.0657
30.0667	2	32.8
32.8	2	35.5333
35.5333	0 3 3 5	38.2667
38,2667	2	41
41	2	43.7333
43,7333	Ö	46.4667
46.4667	2	49.2
49.2	2 0	51.9333
51.9333	1	54.5567
54 - 6667	0	57.4
57.4	1	60.1333
60.1333	0	62.8667
62.8667	1	65.6
65.6	0	68.3333
EEEE + 88	1	71.0667
71,0667		73.8
73.8	1	76.5333
76.5333	0	79.2667
79+2667	1	82
-		

B SCAT
THE MAXIMUM VALUE OF THE DATA IS 0.216
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 0.216
THERE ARE 516 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 3.50756E-2
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
INPUT THE NUMBER OF BINS TO SORT DATA
?25

LOWER	NUMBER	41 T.	UPPER	
0	18	1	0.00864	·
0.00964	81	1 -	0.01728	•
0.01728	114		0.02592	•
- 0+02592	104		0.03456-	
0.03456	57	4.	0.0432	
0.0432	51		0.05184	
0.05184	38	4	0.03048	
0.06048	23		0.06912	
0.03912	8		0.07776	
0.07776	7	*.*	0.0864	
0.0864	2		9.50400E-2	
9.50400E-2	3		0.10368	
0.10338	2		0.11232	
0.11232	0		0.12096	
0.12096	2		0.1296	
0.1296	0		0.13824	
0.13824	1		0.14698	
0.14688	0	100	0.15552	
0.15552	1	100	0.16416	
0.16416	0		0.1728	
0,1728	1.		0.18144	
0.18144	1		0.19008	
0.17008	0		0.19872	•
0.19872	1	1	0.20736	
0.20736	0		0.216	
			and the second s	

NONMETHANE HYDROCARBONS
THE MAXIMUM VALUE OF THE DATA IS 5123
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 5123
THERE ARE 321 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 443.321
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
INPUT THE NUMBER OF BINS TO SORT DATA
?30

LOWER	NUMBER	UPPER
0	40	170.767
170.767	127	341.533
341.533	48	512.3
	32	683.067
512.3	— · <u>.</u>	853+833
683.067	20	1024.6
853.833	13	
1024.6	11	1195.37
1195.37	2	1366.13
1366.13	.2	1536.9
1536,9	2	1707.67
1707.67	1.	1878.43
1879,43	0	2047.2
2049.2	0	2219.97
2219.97	0	2390.73
2390.73	0	2561.5
2561.5	1	2732+27
2732+27-		2903.03
2903.03	0	3073.8
3073.8	0	3244.57
3244.57	· · . O	3415.33
3415.33	0	3596.1
3586.1	0	3756,87
3754.87	0	3927.63
3927.63	· · · · · O	4098.4
4098.4	o - 1	4269.17
4269.17	0	4439.93
4439.93	0	4610.7
4610.7	0	4781.47
4781.47	Ö	4952+23
4952.23	1	51.23

HAZE COEFFICIENT
THE MAXIMUM VALUE OF THE DATA IS 0.6
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 0
THE RANGE OF VALUES IS 0.6
THERE ARE 440 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 0.136364
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
INPUT THE NUMBER OF BINS TO SORT DATA
75

LOWER	NUMBER	UPPER
0	278	0.1
0.1	102	0.2
0.2	52	0.3
0.3	58	0.4
0.4	0	0.5
0.5	2	0.6

TOTAL HYDOCARBONS
THE MAXIMUM VALUE OF THE DATA IS 9998
THE MINIMUM OF THE ABS. VALUES OF THE DATA IS 1
THE RANGE OF VALUES IS 9997
THERE ARE 328 NON-NEGATIVE VALUES
THE AVERAGE VALUE IS 2620.6
THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!
HISTOGRAM IS TO 20 BINS

LOVER	NUMBER	UPPER
1	1	500.85
500.85	ō	
1000.7	Ö	1000.7
1500.55	99	1500.55
2000.4	84	2000.4
2500.25	72	2500.25
3000.1	21	3000.1
3499.95		3499.95
3999.8	28	3999.B
	73	4499.65
4499.65	5	4999.5
4999.5	0	5499.35
5499+35	1	5999.2
5999.2	0	6499+05
6499.05	1	6998.9
6998.9	0	7498.75
7498.75	O ·	7998.6
7998 . 6	0	8498.45
8498.45	Ö	8998.3
8998.3	i	9498.15
2498.15	2	
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READINGS HISTOGRAM EACH *=1 HOURLY AVERAGE

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OZONE READINGS HISTOGRAM

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WIND DIRECTION HISTOGRAM

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SOLAR RAD HISTOGRAM EACH %=1 HOURLY AVERAGE

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TEMPERATURE CELSIUS HISTOGRAM EACH *=1 HOURLY AVERAGE

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RELATIVE HUMIDITY HISTOGRAM

	18 Table 1	EACH *=1 MOURLY AVERAGE
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ABSOLUTE HUMIDITY HISTOGRAM
                 EACH *=1 HOURLY AVERAGE
     2,203
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15,436
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     工术水水水水水水水水
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NO2 CONCENTRATIONS HISTOGRAM

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REDUCED SULFUR HISTOGRAM

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TOTAL SULFUR HISTOGRAM

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METHANE HYDROCARBONS HISTOGRAM

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MASS LOADING HISTOGRAM FOOR AST HOURTY AVERAGE

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TEMPERATURE FAHRENHEIT HISTOGRAM

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9.54	· 붉 회 : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10] : [10]
12,46	이 불어놓은 그렇는데, 물이다. 살아들이 됐다면 할아 먹는 그리고 그리고 그리고 하는 것이다.
16.28	는 사용 사용에 가입니다. 전혀 보고 있는데 현상이 되는 것이 되었다면 보고 있는데 이번 사용이 되었다. - 사람들은 사용이 되는 것은 것을 하고 있다면 보고 있다면 보고 있다면 보고 있는데 되었다면 보고 있는데 보고 있는데 보고 있는데 보고 있다면 보고 있다면 보고 있다.
20.1	어 꽃이 막이 살아왔다면 이번 가는 것이다. 그는 사람이 되는 것이 되는 것이 없는 것이 없는 것이다.
23.92	는 축사들이 200 중인한 학교 (200명) 및 190명 및 190명 등 보고 있는 190명 등
27.74	이 흙이를 먹는 끊은데 그리다 그리다 가는 것이 하는 것이 되었다.
31,54	이 🤛 병과 그리는 형에 집에 가는 어디에는 이렇게 되면 보면 있다.
35,38	. 이루스 현실 경험 전에 경험
39.2	
43.02	이 찾는데도 불어보고 되어 들어왔다면 하는데 보는데 그는 그는 그 그 그 그 그는 그는 그는 그는 그를 받는데 그를 되었다면 그를 받는데 그를 받는데 그를 보다면 그를 받는데 그를 보다면 그를 받는데 그를 받는데 그를 받는데 그를 되었다면 그를 받는데 그를 되었다면 그를 받는데 그를 되었다면 그를 받는데 그를 되었다면 그를 받는데 그를 되었다면 그를 보다면 그를 받는데 그를 보다면 그를 보다면 그를 보다면 그를 보다면 그를 보다면 그를 보다면 그를 보
45.84	그활 후 보인 없는 이 후 살이 된 경험을 잃어 나는 사이다.
50.44	는 취 하는 사람이 하는 것은 이번 하는 것은 사람들은 보다 되었다. 그렇게 되었다는 것은 사람들은 사람들이 되었다.
54.48	진擊, 18 그렇게 함께서 어느 가는 사람들은 사람들이 되었다.
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0.05184	工工工程,并不是一个工作,这个工作,这个工作,并不是一个工作,这个工作,这个工作,这个工作,这个工作,这个工作,这个工作,这个工作,这
	1.本家学者来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来来
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0.06912	고 > 이 회사 가입니다. 그렇게 다른 사람들은 사람들이 되었다면 보다 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은
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0.1728	보 는 사용하는 사람들은 사람들은 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는 사용하는
0.18144	선생이 되는 그렇게 살아가면 생각이 잃어가지 못하는 것도 하고 있다면 그는 것은 그는 것이 없었다.
0.19008	제 算者 사람들은 하는 사람들이 되는 사회에 가장되었다. 그 사람들은 사람들이 되었다. 그런 사람들이 되었다. 그런 그는 사람들이 되었다. 그 사람들이 되었
	생활하고 있다. 돌아가는 사람이는 사람이 보는 것이 되는 것이 되는 것이 되는 것이 되었다.
0.19872	
0.20736	
	선물 사용물 기본에 현재하는 회사 그 교육 사람들은 전 사람들은 중심 사용

APPENDIX D

Meteorological Data

EST	NGU	PGCO	KILBY	VAN	NGU	PGCO	KILBY	VAN	NGU	PECO		Van
00				78 SWZ	1-07 75/27 C	PC 75 SEY		112. 5/	1-17 69/58 1202			:750
01	·			18 1143	75/66 4	75 SE 21		72 55		71 2 5		22 50
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05				76 E5				70 F	1007 64/581200	49 ESE 5		13 SEC
06	100-H 81/74 020L				1-07 75/64 0905			72 NE 5	69/62 130.			32 55
07	MU 12/743602	1004	24 5W	21 E5	127 76/25 0807	76 E 11	-11 SW	75 NS	1-007 74/63 1404	73 575	69 E	7056
08	105H 84/73 3608		•	23 NES		79 2 8		12 131	79/41 1003	76 5 L/		75- 2
09	1044 85/73 3610	84 NII		93 N1		82 NE12		,, J3	1007 73/20 1702	7954		76 6
10	105H 84/74 0211			24 NZ	HW7 7×/68 1012	83 E12.	1	ਅਤ ਸ਼ਤ				30 25
11	84/75 0712	89 NE 9	85 5W	35 NZ	107 79/16 0810	83 56	ELR N	75 NS	1-du7 90/24 083	31 SE 4	75 5	31 2
12	1-405H 8-1/23 0110	I	1.	96 N2	79/24.0811	94 E8		79 13	81/64 050	82 E4	ļ	91 2
, 13	84/130210			87 NZ	1-47 8%, 0912	93 ES		79 113	47/5 13VS	83 5 25		83 E
14	CH 84/73 0212	1		87 N=1	1-47 78/2 09/L	94 E8		79 N2				93 6
15	7 84/69 0314		1	BC EI		BH EB	92 SE	4 او ريو	3/41 15.02	es SE 10	57 SE	9:12
16	12 7 83/70 0112			36 E5	76/56 0810	93 £12		76 11 5		Q45E10		93 E
17	1-07 84/700112	 	1	34 ES	77/53 0910		 -	79 14	127 - 1/2 1310	33 51:10		92.E
18	81/72 0706	 	1	·	1-47 76/52 1107	79 E10			127 79/21 15/10			90 E
19	1-40LH 75/70 0903	84 NE 8	JIR NO			77 8 5		75 NED		· 		77 €
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03 1-00 70/58 1703 67 53 62 SE 12 E 0 73/62 2206 68 SSWL CLR S 13 55 76/70 2005 7	- د ۱۵۵ کور		72545
	بے جی د	· · ·	7155
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	17W6		77562
09 80/61 2304 795W5 77 SE1 80/63 3210 305W10 785WZ 35H 82/70 2202 8	32W3		e25W3
10 1-W7 81/62 2206 B2 SE3 BO SEZ 84/64 2404 B4 SW 9 BI SWZ JCH 84/69 2402 B	97W4		475W4
11 107 83/23 d 94 510 CLR N 43 52 85/25 1905 83 W 85 5W3 1-WH 90/29 C 9	3, SW5	53 B	72524
12 81/63 (86 83 43 52 87/64 2306 49 55609 47 53 90/66 3604 3	35 N.G		96 53
13 84/64 0306 97 58 97 SE3 83/64 2405 91 SSW7 91 S3 91/68 3604 91	NE G		97562
14 1-01 82/6 0606 89 56 38 SEZ 84/69 050 4 73 SW5 33 SE4 91/69 0705 9			965WZ
15 07 84/1 0508 on SE 9 CER S 38 SE 2 84/67 0604 9254 89 5 93 SE 3 90/63 0704 91	8 1157	CER .	73 52
16 84/64 0707 39 SE9 87 SE5 86/70 0705 92588 12 SE4 05H 88/68 0804 9	15 NE 7		72 SE3
17 1-07 83/67 1506 B6 SES B4 SEC B6/72 0804 72 SES 38 SES OCH 90/70 1004 7	13 NE11		91556.
18 07 82/65 1407 93 5 7 925EC 85/68 1307 87 SEC 24 SES 89/63 1355 9			98 554
19 79/34 1507 81 57 79 SE 79 S	89 NE6	CLR J'	8554
20 1-07 77/62 1506 79 S6 75 SE3 80/67 1605 12 S6 78 SE2 07 84/72 1504 18	ec NEC		8125E2
21 07 76/62 1606 77 56 72 SE3 80/67 1706 00 SG 557 82/72 1605 0	27,55	· ···	8051
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	OZ	1007 79/1 2004	ŀ	1 .	74 SW2	MU 74/2		77 E 4			(3)7 77/70 0901			74	2
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Ī	04	1-407 78/11 7002				140 73/18 1-107 73/18		74 =4		7151	14 74/20 1303	75-26		73	<u>.</u>
1	05	1-00CH 77/70/903	h .			1-254 72/3		75 E4		70 55	ONE - 4 191 1102			フレ	5
	06	76/71 1402	1		2 1250 2	1-05H 76/	75 C	75 NEY		7255	74/7, 1204			72	<u>-/</u>
Ī	07	77/73 1402		PC 51	75-W3	100/H 80/	1 1004	77 86	3LR E	785/	HU 78-75/72 1204	75-58-6	72 52	73	2
ŀ	08		PC 80 55W 4		75 W 3	i .		1		7951	741			73	4
	09	84/74 3305			ļ	1007 83/6				30 SE 1	75/72 0703	76 E-9		75	4
:	10	100 CH 83/74 OCOC			96 W 2		A. 351	BESE 6		52.52	1000 79/12 0906	,		75	5
}		19 CH 0/14 050C			95 W 1					ay 55 2	1四四 80/72/105		CY 55	76	4
	11	1-014 84/71 0108		84 32		200 7 84/70 200 7 84/70		1		84 SE 4				·	5
	13	100 CH 83/26 0612			9c € 1			97559			1 4 17 - 19/12 075	0, £5£ 10		80	4
	<u>*</u>		1	1	·	100 7 83/7			·	5° 55 5				80	7
	14	82/750708			86 2 7	1007 B3/18	. 0005	97324	CLR C/	31 75 7				 	8
	15	80/74 0007		1	1. 1			1	I .		1000 - 1	155 611	80 -	75	
٠.	16	80/74 0904	T	1	Sz SF 5	ļ		27 52 73	 	81.5.2				77	-
	17	81/74 0704		1	8, 55			85 SE 11	·	B2 VE 2		07E13		77	_5
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	19	78/72 0905			79 55 4			32 SE 10	1	30 €4		-}		27	5
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	22	76/2, C			74 52	<u> </u>	11041	- 	1		HOUT 74/29 0936		 	27	
	23	MED 76/710902	78 E5	72 N	7451	77/28	1102	79 27	72 N	75 E 2	אסי זנ/גנ ספטץ	74 2 7	71 NE	73.56	[3]
	100														

EST	NEU	PGCO	KILBY	VAN		NG	u	PGCo	KILEY	VAN	NE	:u	PSCO	KUBY	V/s.	ا (
00	07 76/17 0908					77 73/E		77 NZ		73 52 21	:		OIP NEIN		C9 1)1	
01	LW7 75/69 070L	751185				74/22		76 N 5	l	73 × 3			72 1/25			
02	TOD 13/2 0506	74 NE 6		72	707	75/66	0310	75 117		72 E 3			21/1/210		CE	2
03	75/18 0407	75 NE 4	PG N63	72	1-0	74/64	0214	75 1111	CER NW	7252 3			70 1/2/0	CIR N	67	3
04	107 75/19 0507	PC N3		72 2	: ك 1	7 74/25	0312	ד לן ציר		7153			69 NEG		66	4
05	CH 74/70 0508	74 NEG		73				74/11/29		72 = 3			CO ENES		46	4
06	MUKH 74/20 04/2	24 HE 6		74 2	141	CH 74/22		<u> </u>		72 NE 3			69 NE 9		67	4
07	1007 78/11 03 14	76 1112	74 N	1/3				75 NE6	OLR N	74 4			70 1/2-11	CUE N	ሪዓ	5
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18	MAN 79/69 0509					H 75/25		78 NE15		75 5			9, 1/2/1		79	6
18	77/69 0505							76 NE10	74 1/2	73 4			78 NZ 11	CUR SE	75-	2
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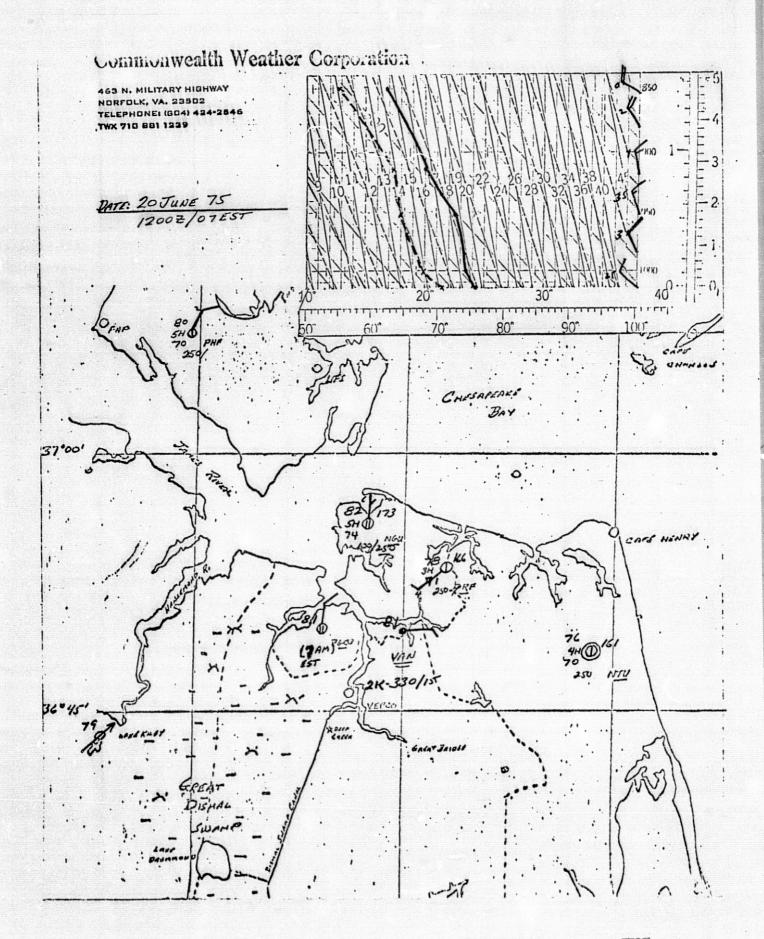
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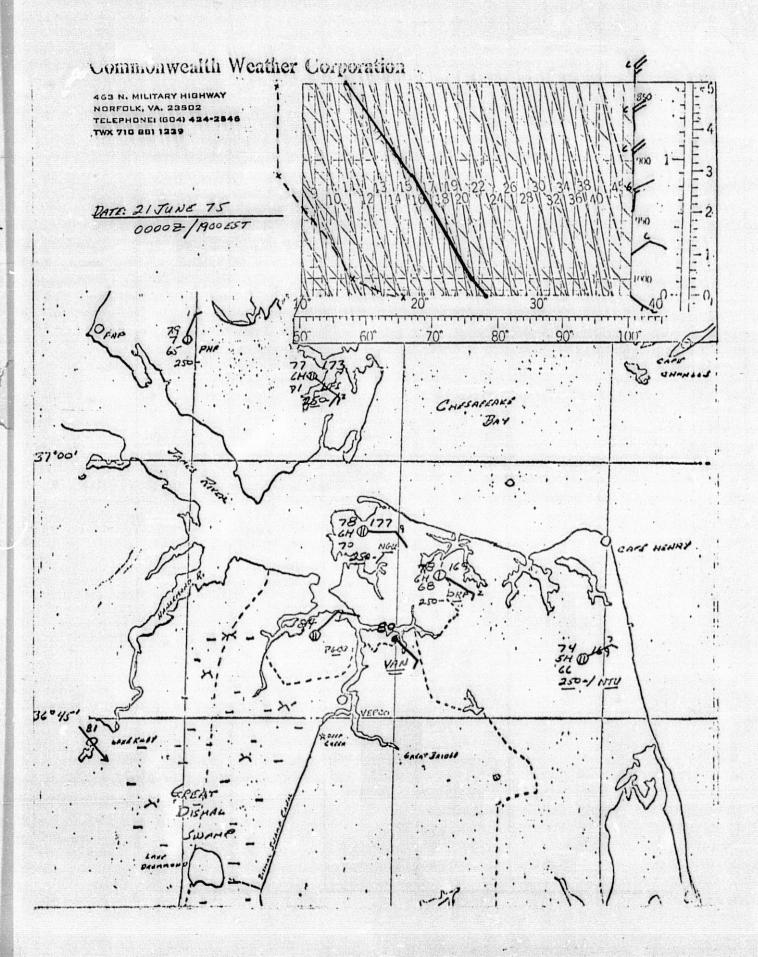
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02	68/58 2404	62 W 4		60 E 4	1607 74/58 2108	23 SW E		c7 11 1	75/64 3410	75 25	018 1	73 5 3
03	68/59 2404	4, 24	SIR W	· 60 54	72/57 2109	8 (13 M 67		67 N 2	100 PO TOST	711 54	70 10	72543
04	63/57 2506	4, W3		59 W3		685W 9	<u> </u>		1000 731 E			71 SW3
05	18/56 2608			co W3	100 70/58 1904			CC Nº 2	7/34 0801			70 SUZ
06	20/54 2606	in WL		62 WY	7-B(H 7/19 2006	175W.5		ze 11 2		74 154		71 SW Z
07	73/562908	6611018	CLR N	67 W4	1-06H 73/62 2107	-s. SWS	CER NW	3 كالم 3		75-5624	70 NW	72.502
08	CH 77/55 2910			73 415	1-exH 78/2 2410	75- 65673		72 N7	1-ap.H 78/2 5	77 1164		79.5214
09	CHK 80/57 2908	כן שלא דיך		76 NWC	1-61H 8/63 2610	80 W 7		77 NG	1-001H 169 0304			80 SN 9
10	1-07 81/55 2903	8, 1/68		ع ^ز ولم 79	85/65 2508	95-jW 6	<u> </u>	32 N 6	L			84 W4
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15	87/52 3006			29 JUV	5H 93/62 300C	97553	91 NW	94 NE4	NTU(TH)	Rappus	10 NE	801124
16	87/52 3006			ક્8 મેળે (76 NG		93 NEW	EISH 74/69 0904	74586		72 NW 4
17	.[9,16		89 NO 5		14 NG		92 NE4	MOWER 74/18 0502	25 52 5		72 NW 6
18	84/55 3102	90 July 5		38 NW4	1-W3H 90/66 3003	13 1105		91 143	5-RW-H 74/67 1603	74 555	1	71 11115
19	84/54 C	8c Nos 5	CLR S	871144	1-03H 89/65 2904	90 005	BE NW	97 122	2% R-FH 168 1308	7,585	68 ESE	69 1423
20	80/58 1202	80 6 5		81 W2	87/66 2403	99 NWS		ec NF 2				(8 NW2
21	71/55 1506	77 055		73 5 1	100 92/19 0318	83 115		81 E 1	5F70/66 C	27 E6		CO Aby 2
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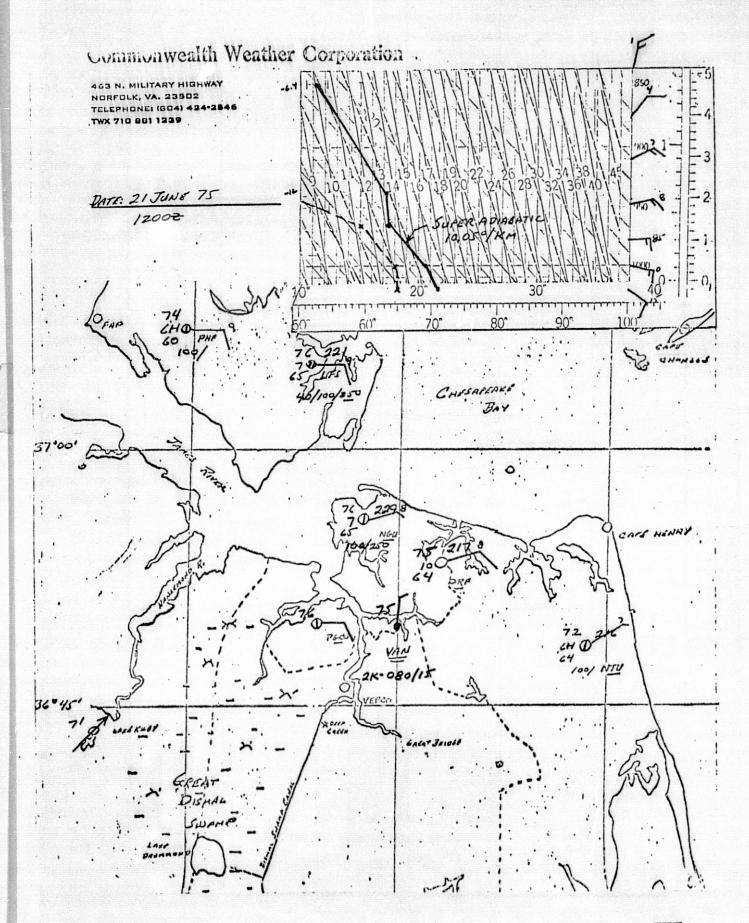
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03	1/17RW- 70/12 3512	70 N5		69 E 4					LO 74/2 1504		47 Sp	
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05	1-12-17-	69 N=1		L7 NEI	MW 70/66 C			45 5W 4	ME 73/59 1403	SSE 5		70 C
06	21/2H 72/66 0307	69 NE 4		11 250	2154 74/20 1				LECHED 74/ 1303			
07	6H 73/64 0306	70 N4	R NE	CC JE1	/	70566			M& 75/8 1304			71. C
08	MADGH 76/67 0408	2 N3			OCH 77/20 2504	 			ED CRW-H 168 1205		70 72	72 61
09	100 76/18 020S	73 16	7		1-WLH 8%9 2505				75/49 0904			73 22
10	LOHO 78/2 3609	73 N3		7/ NE Z			L	78 SE 1	729 0909 200 200 200 200 200 200 200 200 200	76360		745£3
11		75 NS	CY NE	75- NE 3		L	1		278W- (1 48W- 73/20 1804		R Car	695N3
12	1000 75/65 0608	75 NE7			1-006H 8/18 2506			86 2 4				71 W4
, 13	100 70 78/15 0110	78 NES			LOD7 87/8 2408							73 NW3
14	1-07 8/7, 0108	80 NJ		02 4	LOD 83/18 2108	co St 10			47 73/73 1805			77 N4
15	CH 8/10 0708	PC ANDS	PENNU	92 55 3	LU 89/8 2109	515	77/1		44 73/20 1905			79 NW 4
16	81/19 0107	ey N 7	-77	07 05 4	1-07 ES/68 2408	99365			MEDGH /72 /702		77 50	810 W5
. 17	1-06H 80/7, 0404			83 NE 1	37/28 2/08	98360,	t	89 N4		ga S' 7		80 SW5
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21	07 74/18 1101				Map 82/8 1906			E1 NE 2				7852
22	73/67 1501			70 SÉ 5	MOD EI/LE 2207	-05/1			MO 78/13 3402			7c_53
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/. /3	100 to	87 NE 7	Frain	85 54	1505H 90/75 2109	905W7		90 E 4		895017		29 6
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18	4TR -H /76 1504			77 12		33 SW 10	, ,		100 85/73 2010	<u> </u>		55 5
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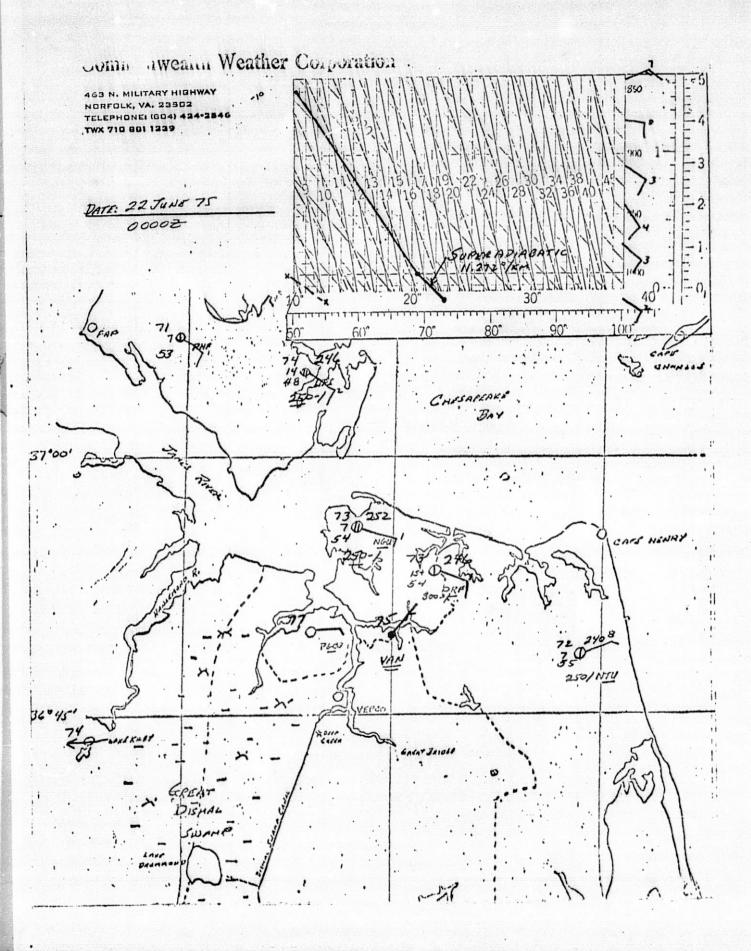
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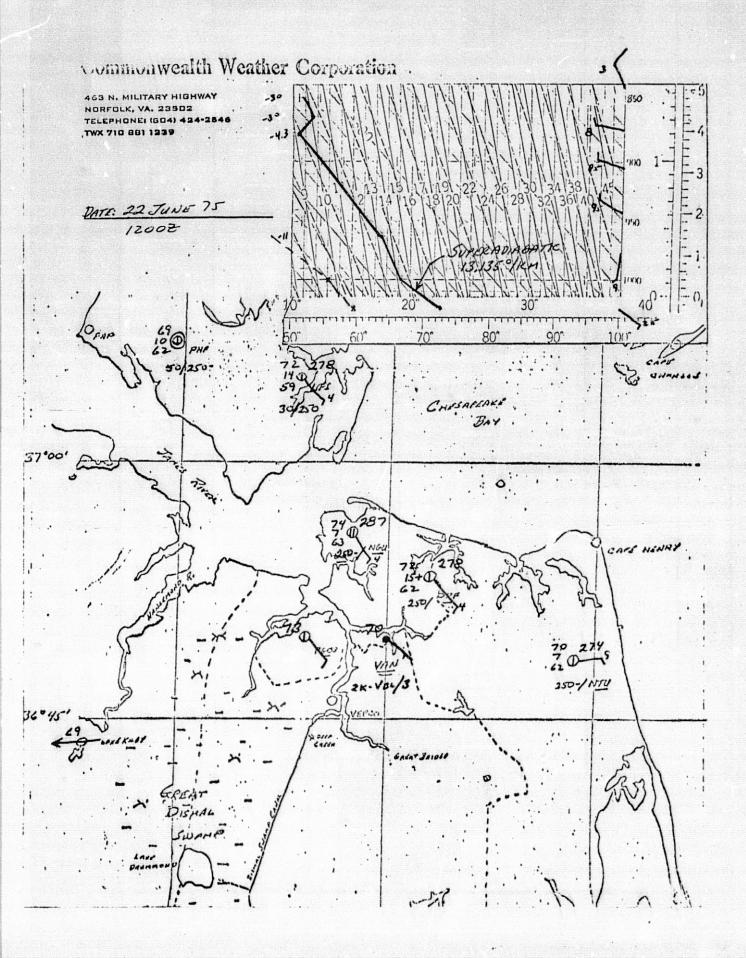


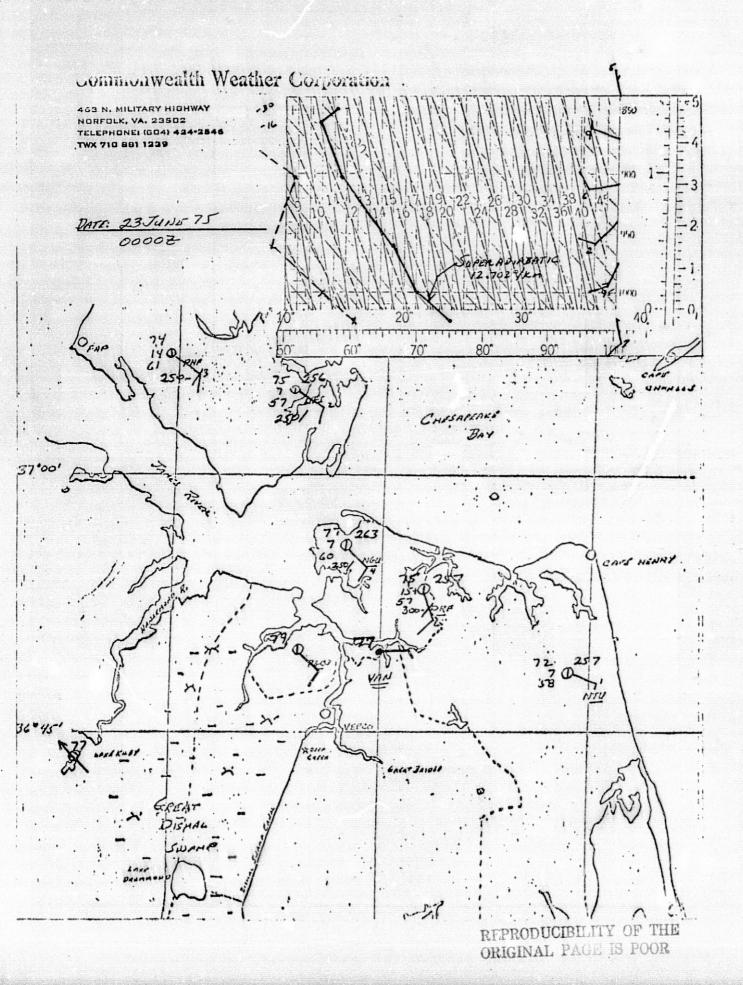


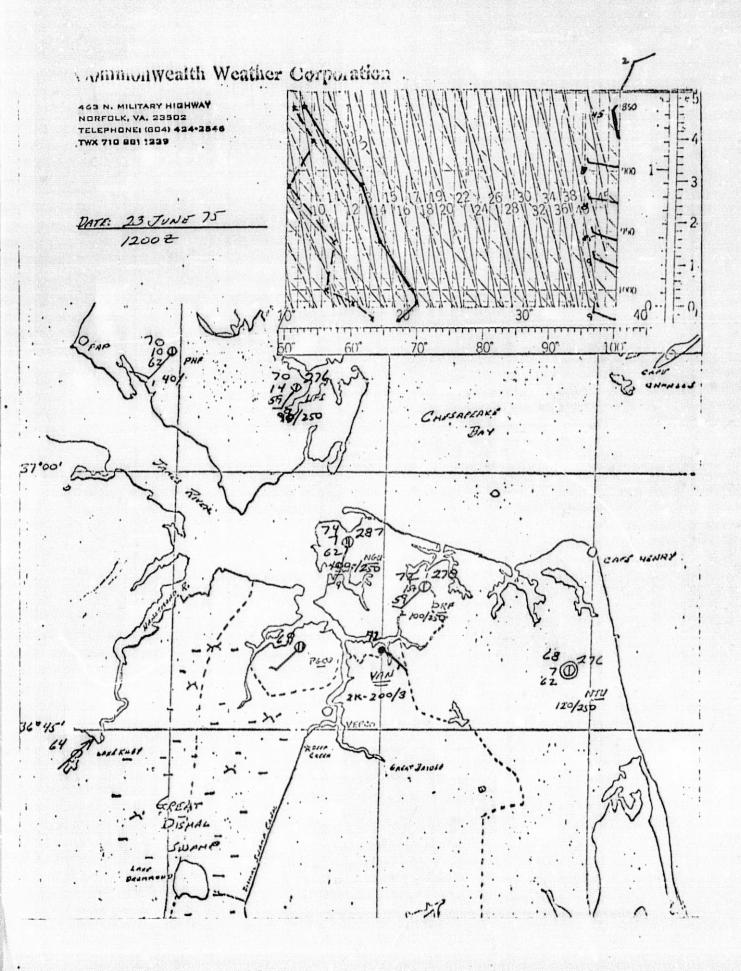


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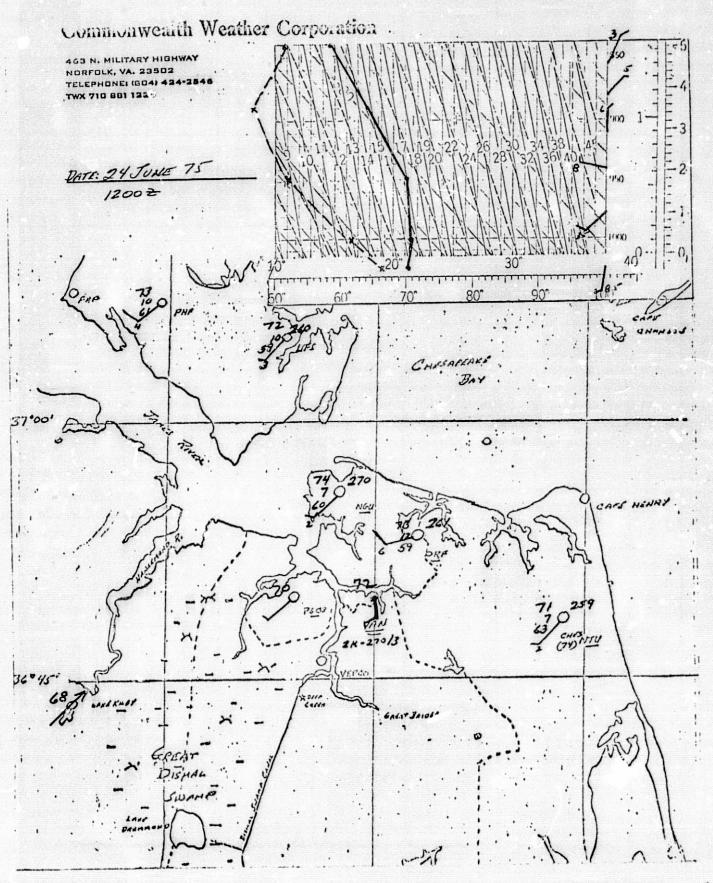




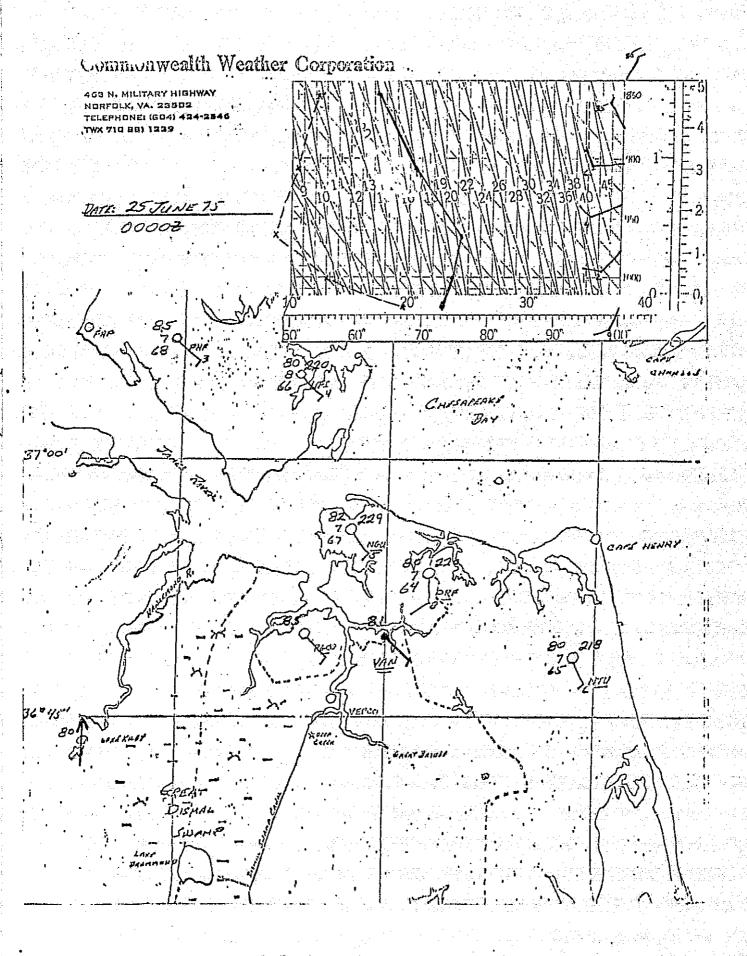


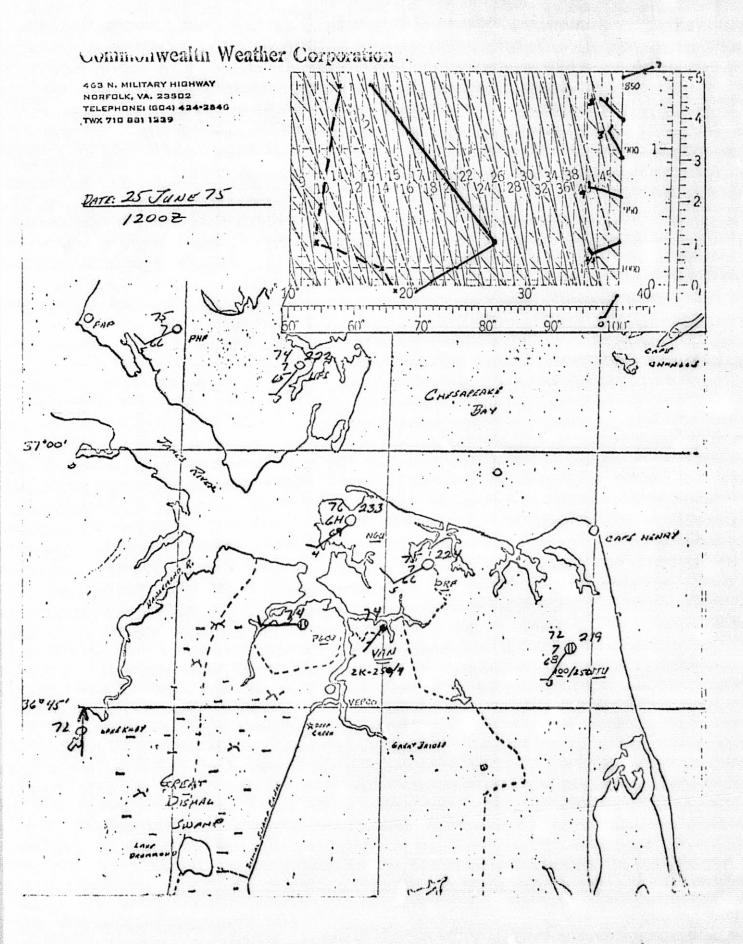


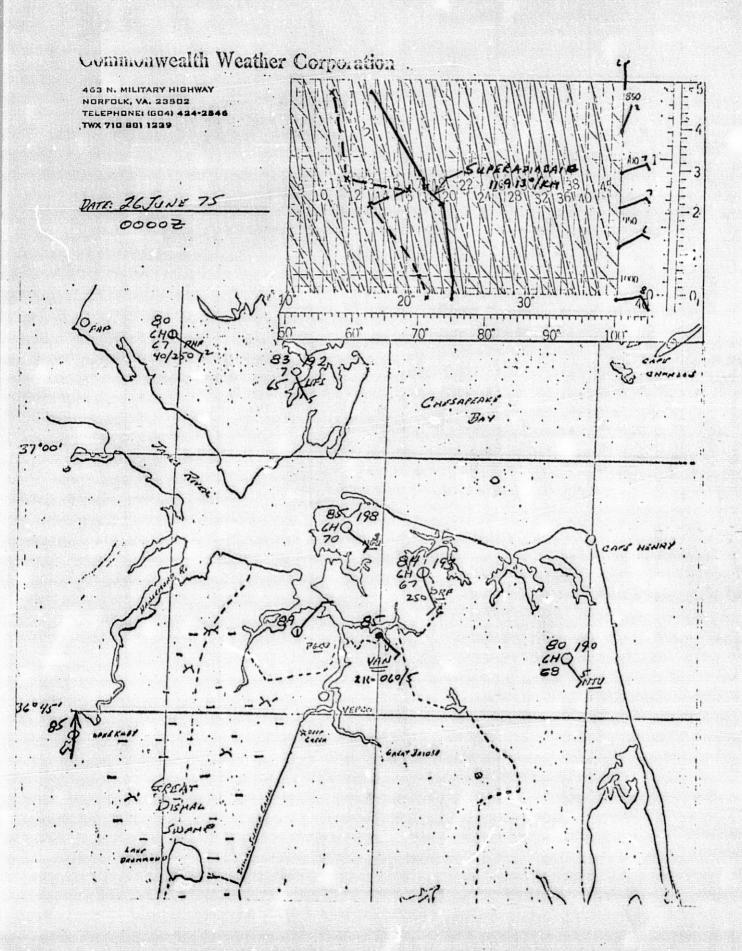
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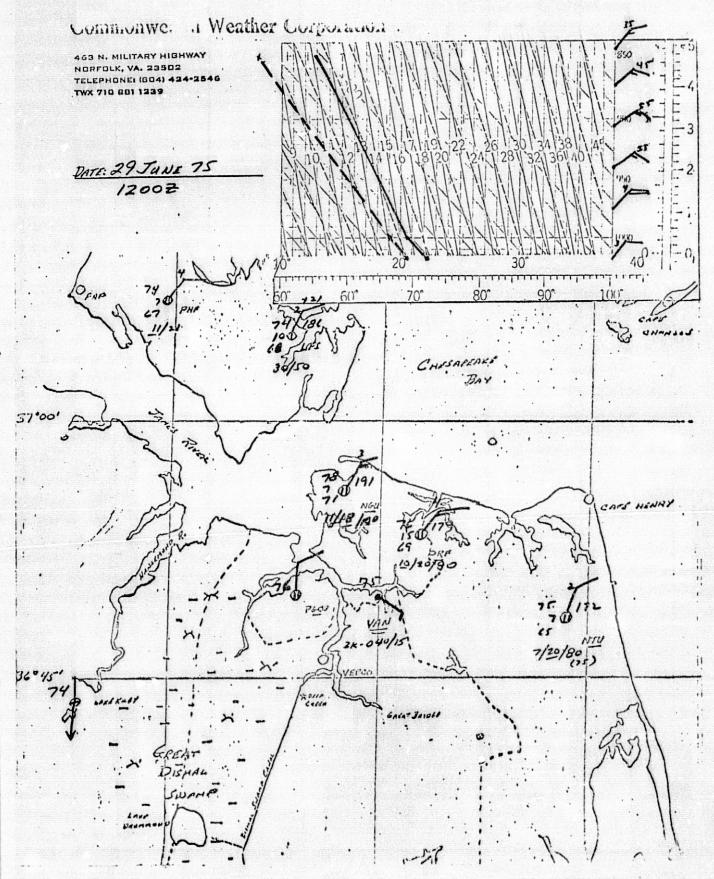
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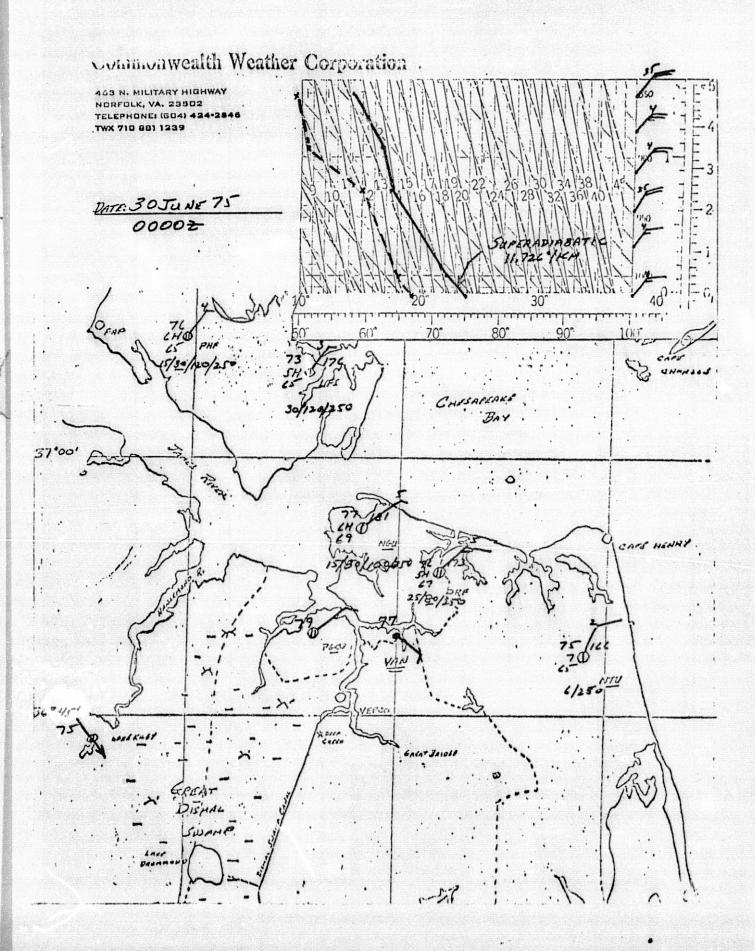
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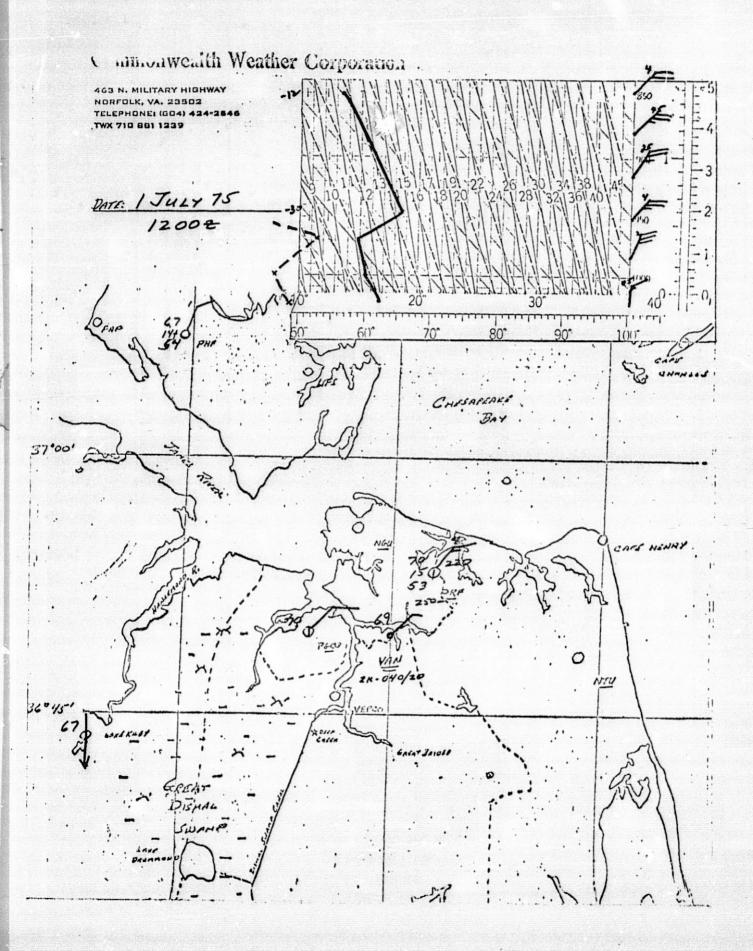


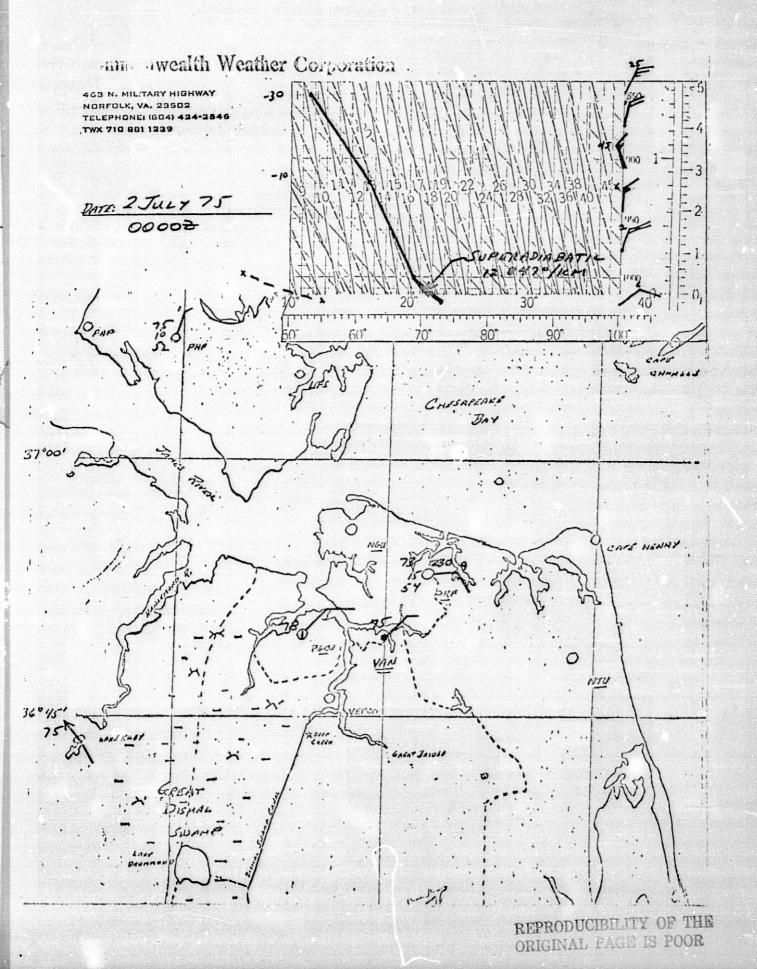
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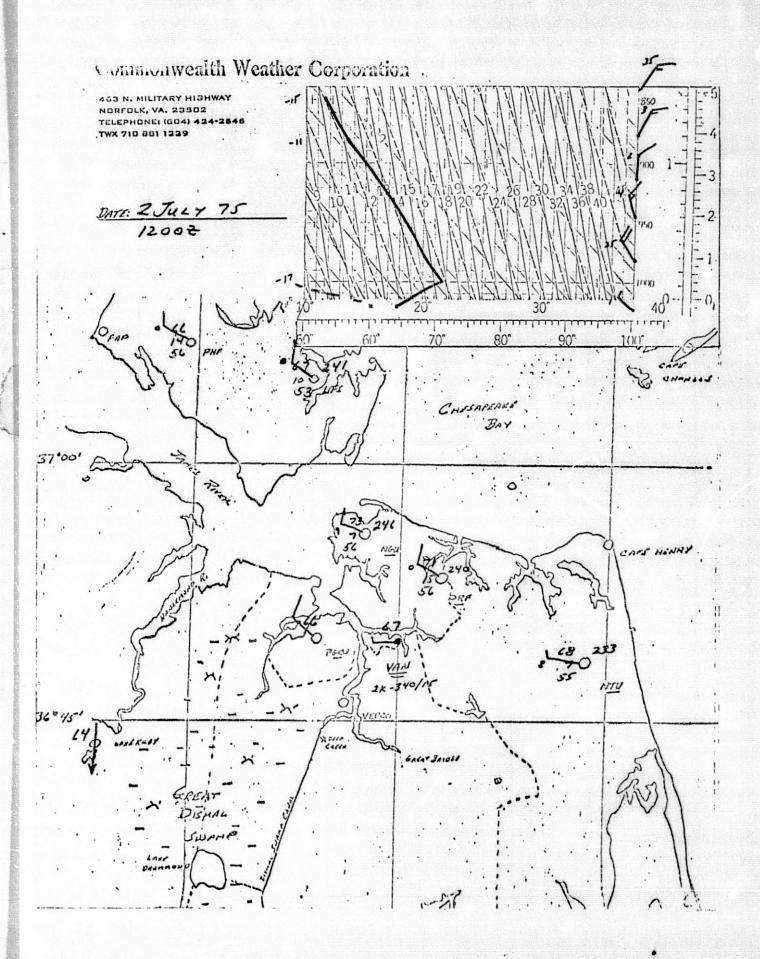


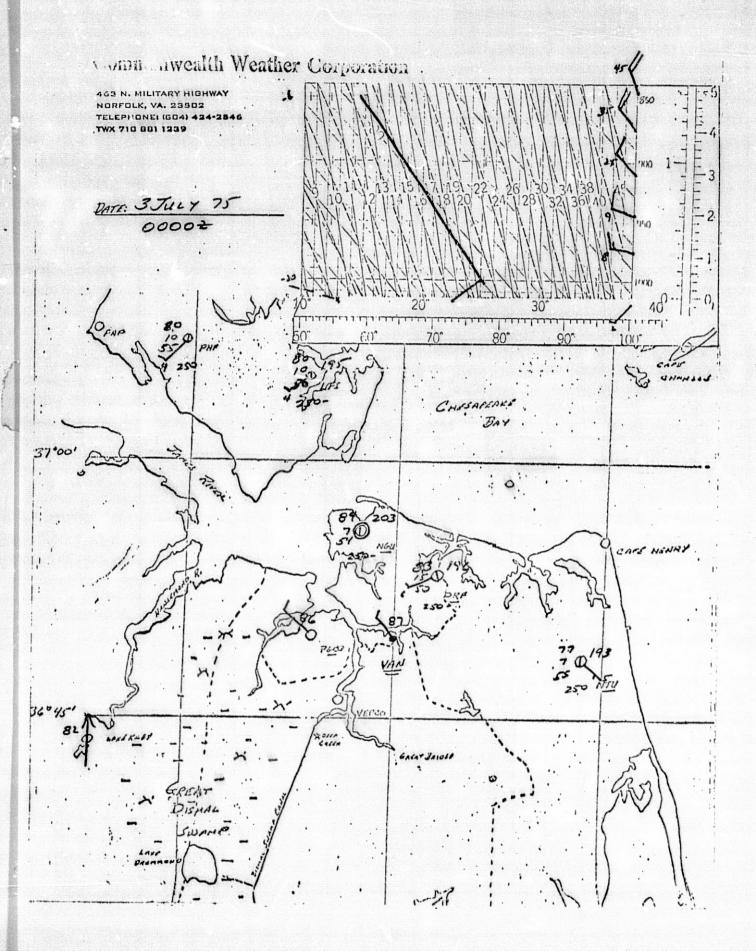
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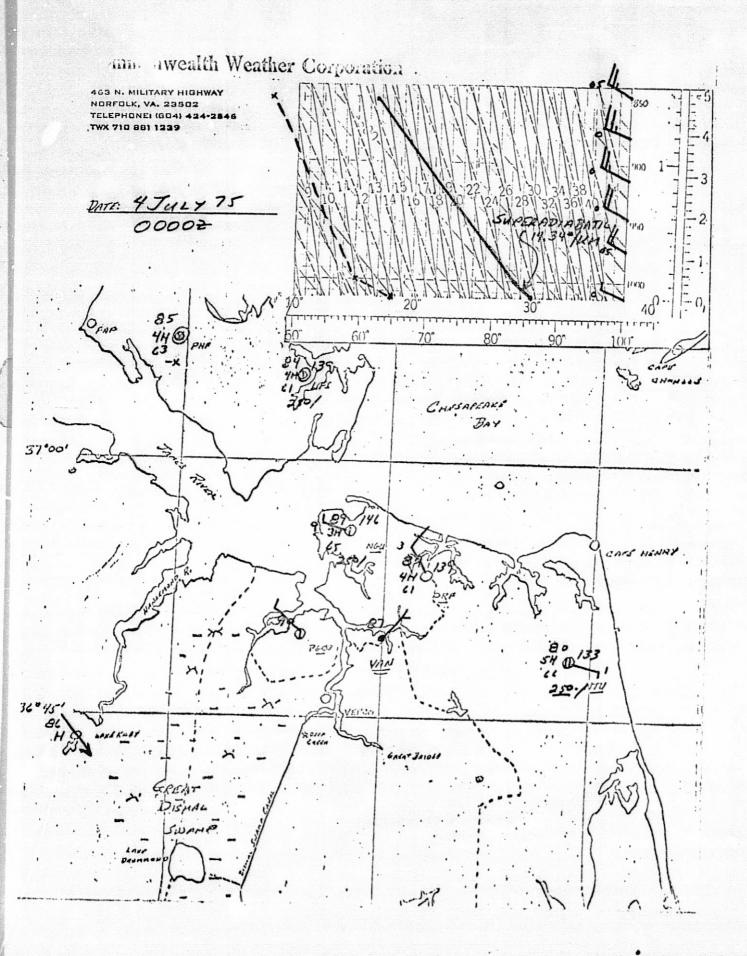


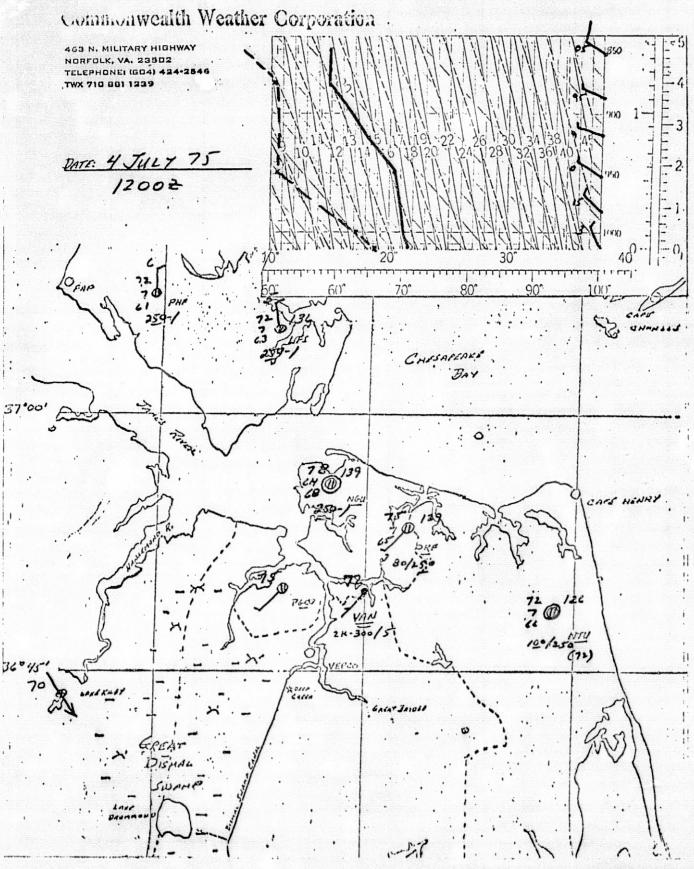




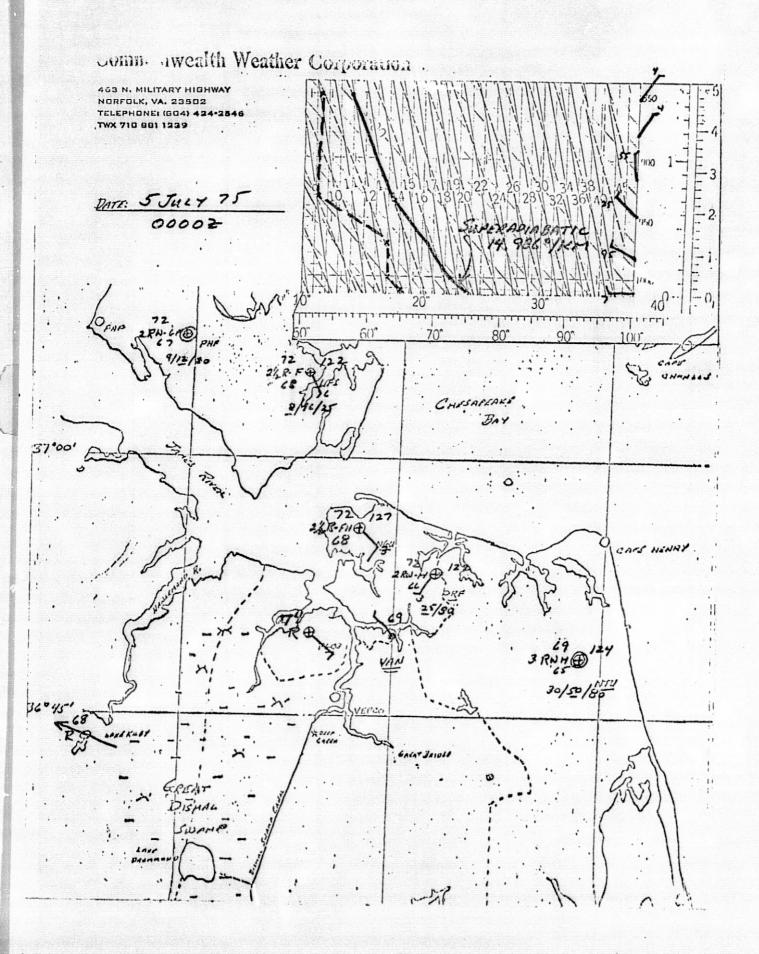


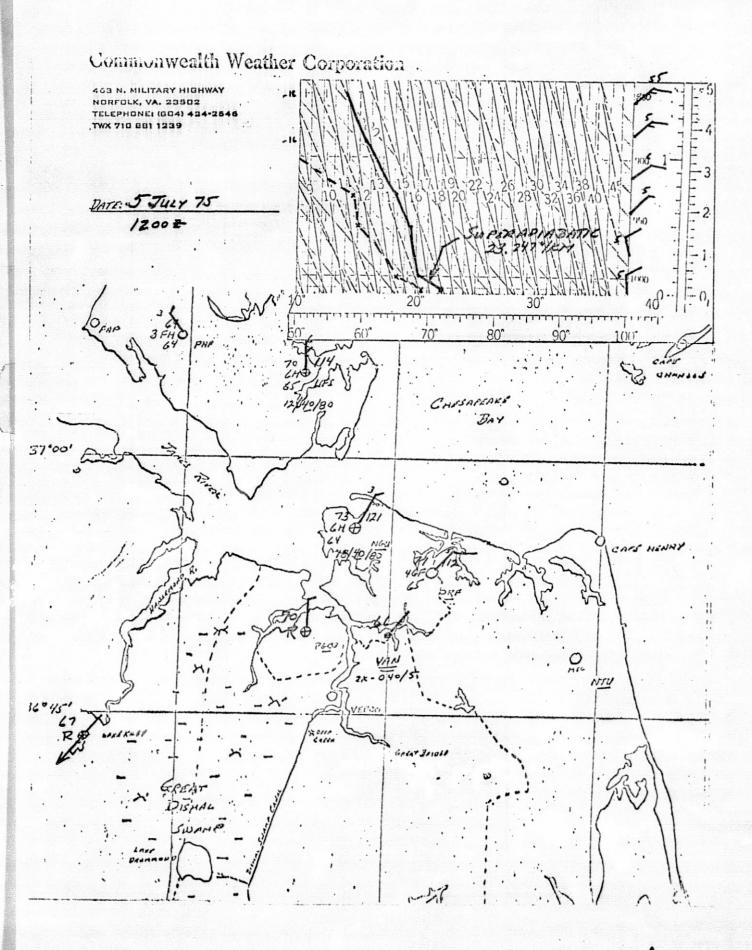
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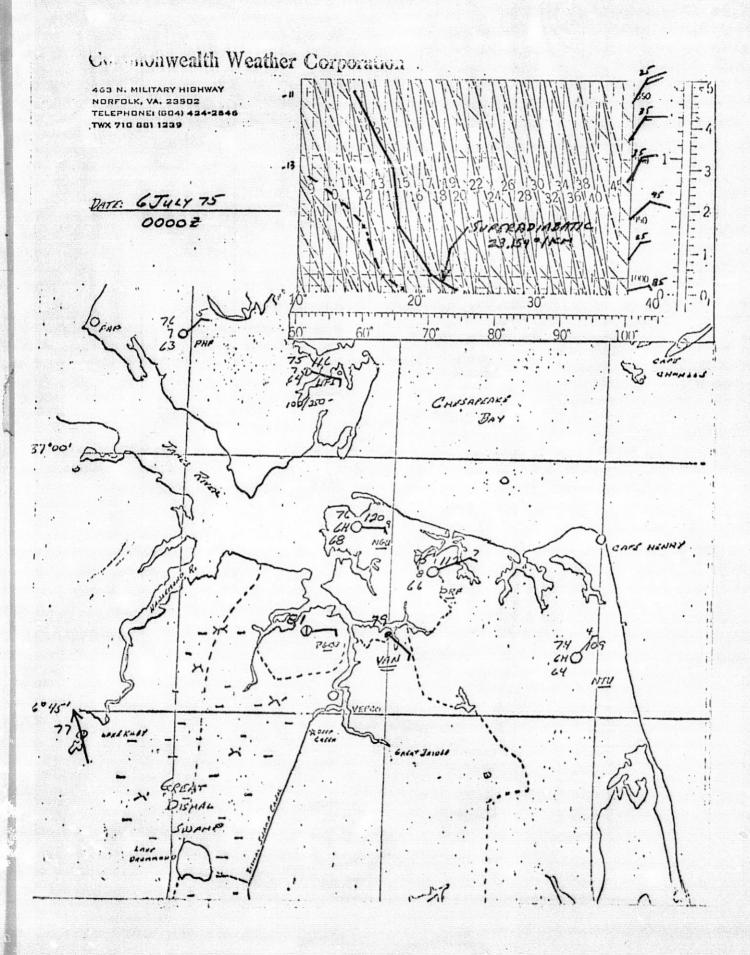


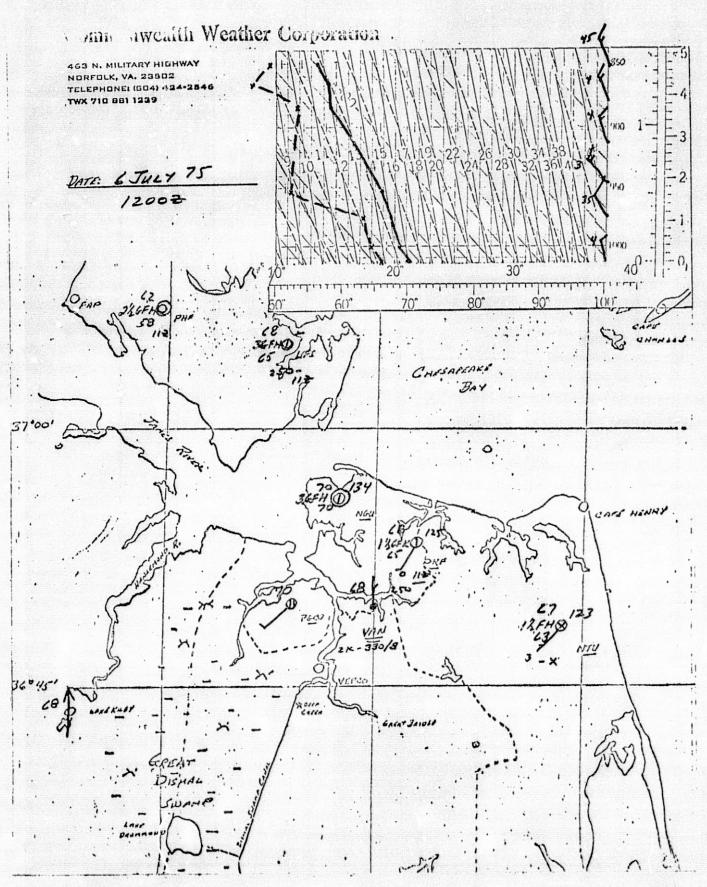


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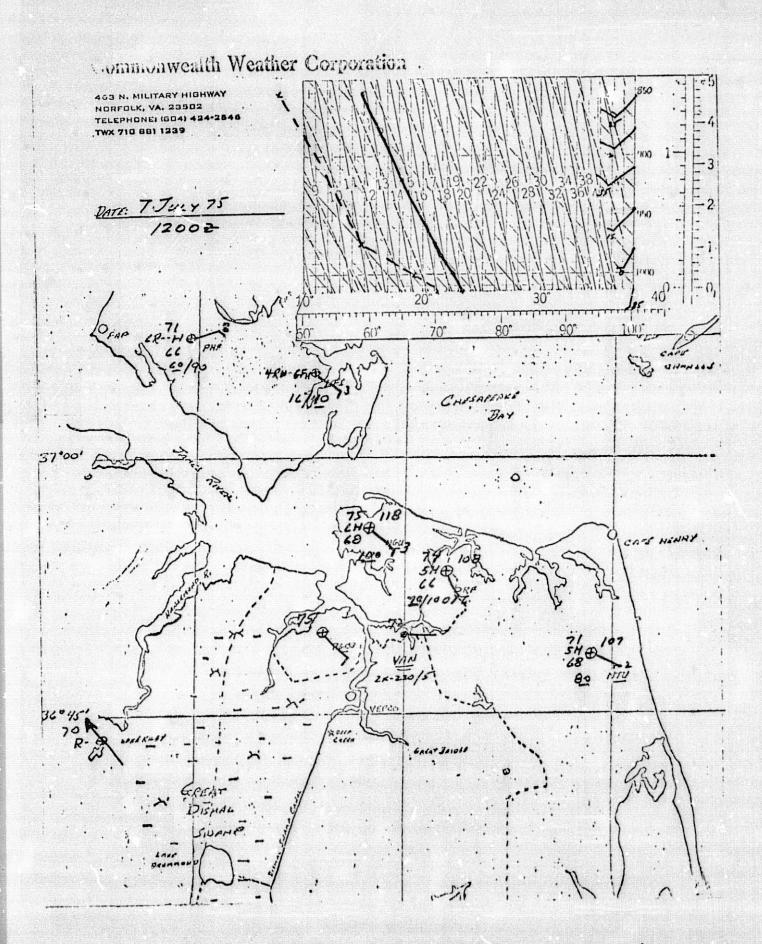




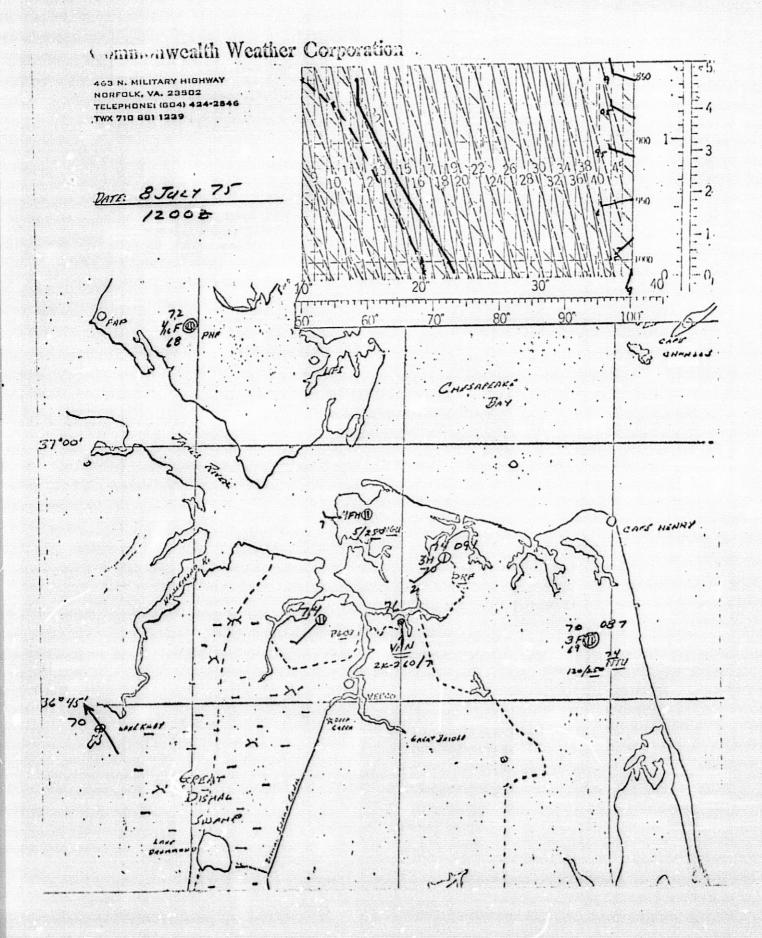


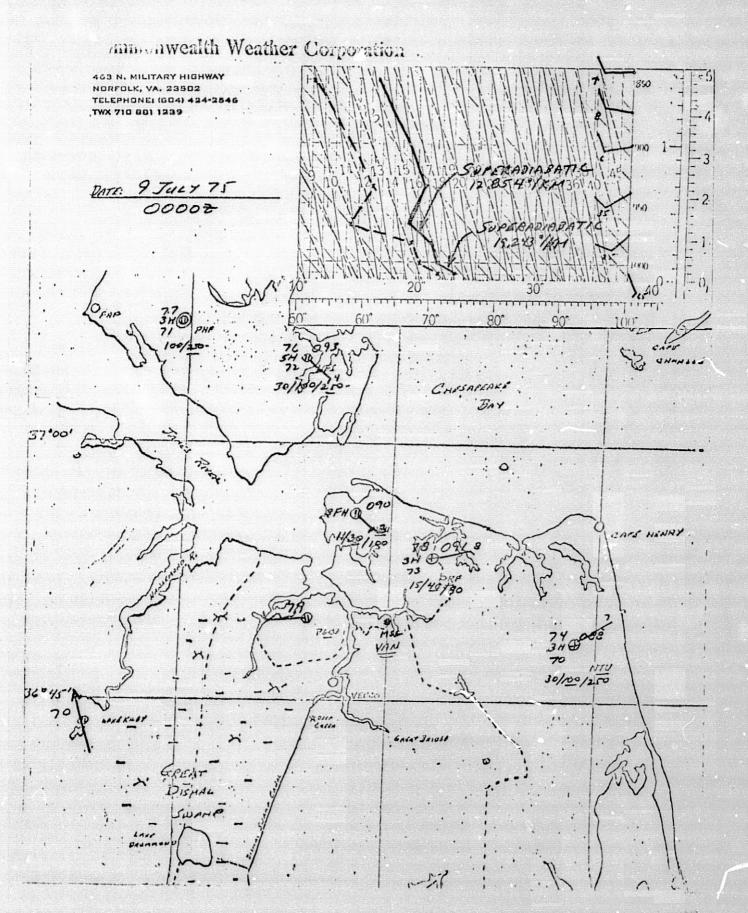
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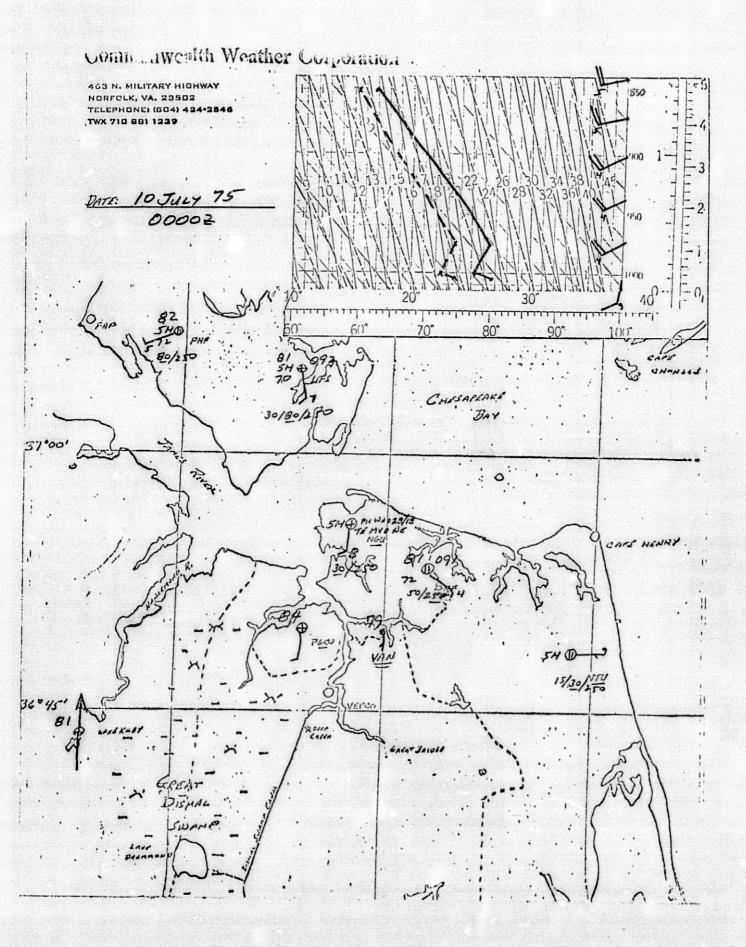
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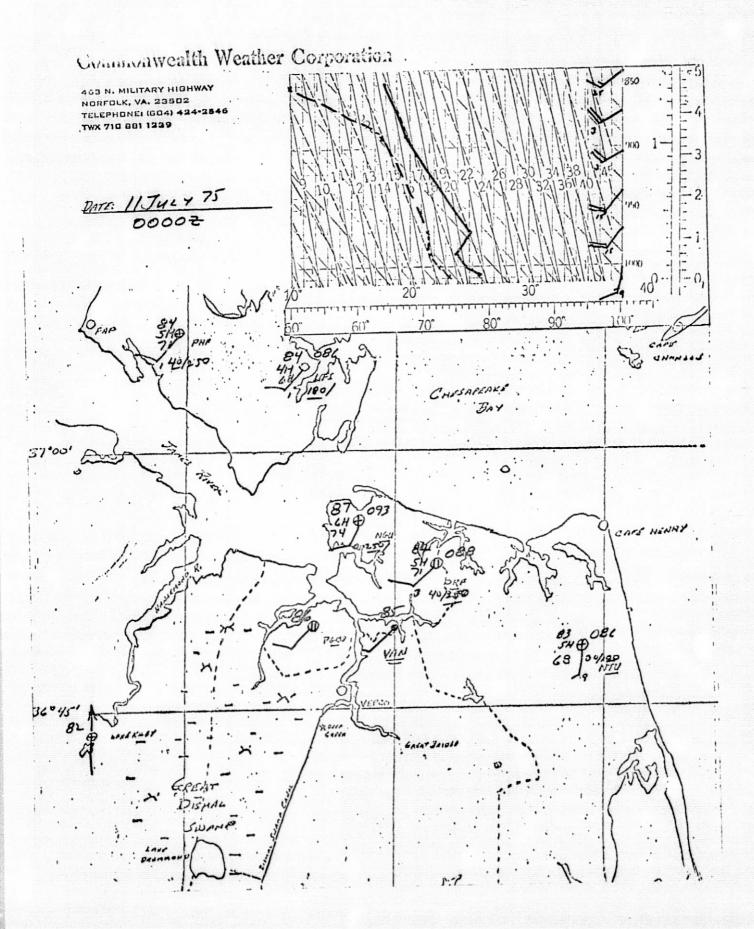


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ommonwealth Weather Corporation 3 463 N. MILITARY HIGHWAY NORFOLK, VA. 23502 TELEPHONE: (GO4) 424-2846 TWX 710 881 1239 BAY CARS HENRY .



Commonwealth Weather Corporation . 463 N. MILITARY HIGHWAY NORFOLK, VA. 23502 TELEPHONE: (GO4) 424-2546 TWX 710 881 1229 12002 CATS HENRY .



Commonwealth Weather Corporation 463 N. MILITARY HIGHWAY NORFOLK, VA. 23502 TELEPHONE: (604) 424-2846 TWX 710 881 1239 CAPS HENRY . Commonwealth Weather Corporation 3 463 N. MILITARY HIGHWAY NORFOLK, VA. 23502 TELEPHONE: (GO4) 424-2846 TWX 710 881 1239 CATS HENRY . 5/10/00

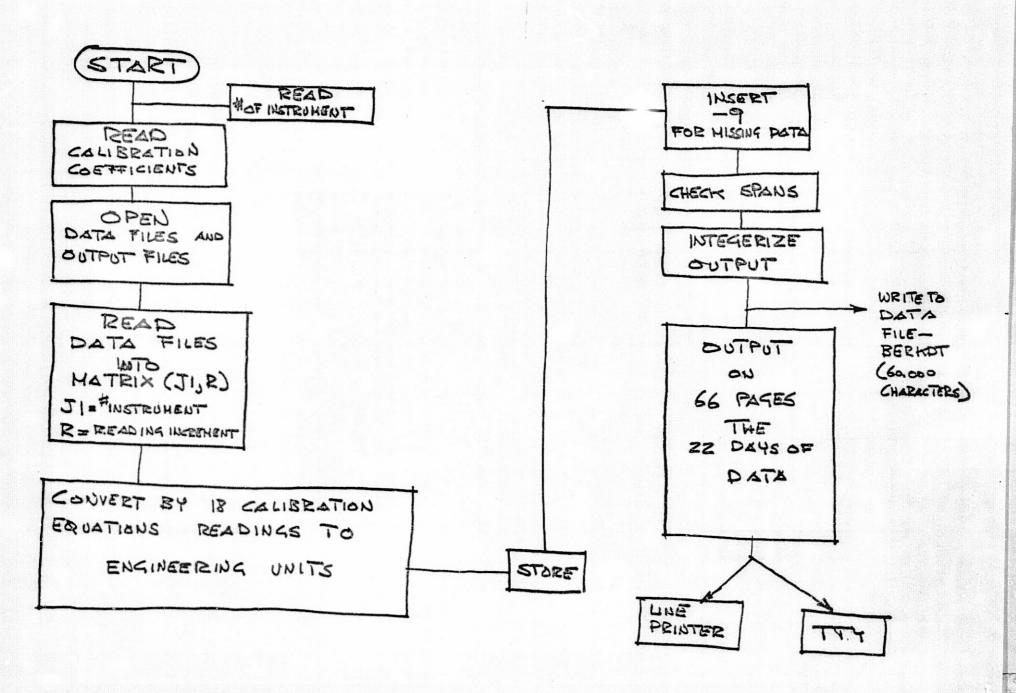


FIGURE ONE : FLOW DIAGRAM OF PROGRAM FLMOUT - WRITTEN IN BASIC

OLD FILE NAME -- PLMOUT READY . LIST PLMOUT 12:00 27-AUG-75 10 DIM A1\$(25) 15 DIM S(528) 20 DIM A(35) 30 DIM K1(25) 40 DIM C(18,550) 50 RESTORE 60 F1=5 70 L=15 80 REM READ IN CALIBRATION COEFFICIENTS 90 FOR K=1 TO 2*L 100 READ A(K) 110 NEXT K 120 DATA .4079802, .4035995, .01058665, -1.35, .01058665, -1.35 130 DATA 1.711214, 9272089, 4.542258, 050855, 5,0 140 DATA .5021172, .8705642, 1, 1, 1, 0 150 DATA .03504743,5.5053,7.941E-3,0,1,0 160 DATA 45,0,1,0,4.5E-7,0 170 FILES OZTHM, TSRSNO, N2AHRH, TPSRWS, WDCHBS 180 FILES BERKDT 190 FOR II=1 TO F1 200 FOR J1=3*I1-2 TO 3*I1 210 READ #11,A15(J1) 220 READ #11,K1(J1) 230 GOTO 250 240 PRINT A1\$(J1);" HAS ";K1(J1);"ENTERIES" 250 FOR R= 1 TO K1(J1) 260 READ #11,C(J1,R) 270 NEXT R 280 NEXT J1 290 NEXT I1 300 N2=528 310 REM DO CALCULATIONS OF THE ENGINEERING UNITS 320 FOR L1=1 TO 3 330 FOR R=1 TO KI(L1) 340 IF C(L1,R)<=0 THEN 370 350 C(L1,R)=A(2*L1-1)*C(L1,R)+A(2*L1) 360 GOTO 380 370 C(L1,R)=-9 380 NEXT R 390 NEXT L1 400 FOR L1=4 TO 5 410 FOR R=1 TO K1(L1) 420 IF C(L1,R)<0 THEN 450 430 C(L1,R)=A(2*L1-1)*C(L1,R)**A(2*L1) 440 GOTO 460 450 C(L1,R)=-9 460 NEXT R REPRODUCIBILITY OF THE 470 NEXT LI ORIGINAL PAGE IS POOR

READY OLD

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480 FOR L1=6 TO 7
490 FOR R=1 TO K1(L1)
500 IF C(L1,R)<=0 THEN 530
510 C(L1,R)=A(2*L1-1)*C(L1,R)+A(2*L1)
520 GOTO 540
530 C(L1,R)=-9
540 NEXT R
550 NEXT L1
560 FOR L1=9 TO 15
570 FOR R=1 TO K1(L1)
580 IF C(L1,R)<0 THEN 610
590 C(L1,R)=A(2*L1-1)*C(L1,R)+A(2*L1)
600 GOTO 620
610 C(L1,R)=-9
620 NEXT R
630 NEXT LI
640 E0=6.11
650 B=7.5
660 C=237.3
670 FOR R=1 TO N2
680 IF C(9,R)<0 THEN 730
690 IF C(10,R)<0 THEN 730
700 C(8,R)=217*C(9,R)*E0*10**(B*C(10,R)/(C+C(10,R)))
710 C(8,R)=C(8,R)/(100*(273.16+C(10,H)))
720 GOTO 740
730 C(8,R)=-9
740 IF C(2,R)<=0 THEN 780
750 IF C(3,R)<=0 THEN 780
760 C(16,R)=C(2,R)-C(3,R)
770 GOTO 790
780 C(16,R)=-9
790 IF C(10,R)<0 THEN 820
800 C(17,R)=1.8*C(10,R)+32
810 GOTO 830
820 C(17,R)=-9
830 IF C(15,R)<0 THEN 860
840 C(18,R)=.38*C(15,R)
850 GOTO 870
860 C(18,R)=-9
870 C(1,R)=INT(C(1,R))
880 C(2,R)=INT(1000*C(2,R))
890 C(3,R)=INT(1000*C(3,R))
900 C(16,R)=INT(1000*C(16,R))
910 C(4,R)=INT(C(4,R))
920 C(5,R)=INT(C(5,R))
930 C(6,R)=INT(C(6,R))
940 C(7,R)=INT(C(7,R))
950 C(18, H)=INT(1.E+6*C(18, H))
960 C(11,R)=(INT(C(11,R)*10+.5))/10
970 .C(8, H)=(INT(C(8, R)*100+.5))/100
980 C(10, H)=(INT(C(10, H)*10+.5))/10
990 C(17, H)=(INT(C(17, R)*10+.5))/10
1000 C(15,R)=1.E-6*INT(C(15,R)*1.E+6+.5)
1005 C(15,R)=1.E+3*C(15,R)
1010 NEXT R
1020 REM CHANGE THE COH DATA
1045 FOR R=1_TO N2/2
```

```
1050 S(2*R-1)=C(14,R)
 1055 S(2*R)=C(14,R)
1060 NEXT R
1062 FOR R=1 TO N2
1063 C(14,R)=S(R)
 1064 NEAT R
1100 REM PUT -9 IN THE SUL DATA IF CONC<0 ; IE IF C=-9000
 1110 FOR R=1 TO N2
 1115 IF C(2,R)<0 THEN 1130
1120 GOTO 1140
1130 C(2,R)=C(3,R)=C(16,R)=-9
 1140 NEXT R
1500 SCRATCH #6
1510 FOR L=1 TO 18
1520 WRITE #6,A15(L)
1525 WRITE #6,528
1530 FOR I=1 TO 22
1540 FOR J=1 TO 12
 1550 K=24*(I-1)+J
 1560WRITE #6,C(L,K);",";
 1570 NEXT J
1580 FOR J=13 TO 24
 1590 K=24*(I-1)+J
 1600 WRITE#6,C(L,K);",";
 1610 NEXT J
 1620 WRITE #6,
1630 NEXT I
 1640 NEXT L
 1650 REM PRINTOUT OF THE FINAL RESULTS
 1660 MARGIN130
 1670 FOR G=1 TO 1
 1680 FOR I=1 TO 22
 1690 PRINT
 1700 PRINT ,,,"PAGE "; I;"-";G
 1710 PRINT
 1720 PRINT
 1730 PRINT ,,"PLYMOUTH PARK EXPERIMENT"
 1740 PRINT ,,"OLD DOMINION UNIVERSITY"
 1750 PRINT ,,"ATMOSPHERIC RESEARCH GROUP"
 1760 PRINT
 1770 IF I<= 11 THEN 1800
 1780 PRINT ,,,"JULY "; I-11," , 1975".
 1790 GO TO 1810
 1800 PRINT ,,,"JUNE "; I+19;", 1975"
 1810 REM
 1820 PRINT
 1830 IF G=2 THEN 2030
 1840 IF G=3 THEN 2140
- 1850 PRINT "TIME", "OZONE", "TOTAL H.C.", "METHANE", "H.C.-CH4";
 1860 PRINT ,"TOTAL SULFUR", "RED. SULFUR", "TIME"
 1870 PRINT"EDT",,,,,"EDT"
 1880 PRINT "HOURS", "PPB", "PPB", "PPB", "PPB", "PPB", "PPB", "PPB", "HOURS"
 1890 PRINT
 1900 FOR J=1 TO 24
 1910 P=24*(I-1)+J
 1920 PRINT J-1;"-"; J,C(1,P),C(2,P),C(3,P),C(16,P),C(4,P),C(5,P);
```

```
1930 PRINT , J-1;"-";J
1940 PRINT
1950 NEXT J'
1960 PRINT
1970 PRINT
1980 PHINT
1990 PRINT
2000 NEXT I
2010 NEXT G
2020 STOP
2030 PRINT "TIME","NO","NO2","ABS. HUM.","REL. HUM.";
2040 PRINT ,"TEMP","TEMP","TIME"
2050 PRINT "EDT",,,,,"EDT"
2060 PRINT "HOUR", "PPB", "PPB", "G/M13", "Z", "C", "F", "HOUR"
2070 PRINT
2080 FOR J=1 TO 24
2090 P=24*(I-1)+J
2100 PRINT J-1;"-"; J.C(6,P),C(7,P),C(8,P),C(9,P),C(10,P),C(17,P),J-1;"-"
; J
2110 PRINT
2120 NEXT J
2130 GO TO 2000
2140 PRINT "TIME", "SOLAR RAD", "WIND SPEED", "WIND DIR.", "C O H";
2150 PRINT ,"B SCAT", "MASS LOAD", "TIME"
2160 PRINT "EDT", "EDT"
2170 PRINT "HOURS", "LANGLIES", " MILES /HR", "DEGREES", "UNITS";
2180 PRINT ," KM**-1"," UG/M**3","HOURS".
2190 PRINT
2200 FOR J=1 TO 24
2210 P=24*(I-1)+J
2220 PRINT J-1;"-"; J,C(11,P),C(12,P),C(13,P),C(14,P),C(15,P),C(18,P),J-1
; "-"; ]
2230 PRINT
2240 NEXT J
2250 GO TO 2000
2260 END
```

READY

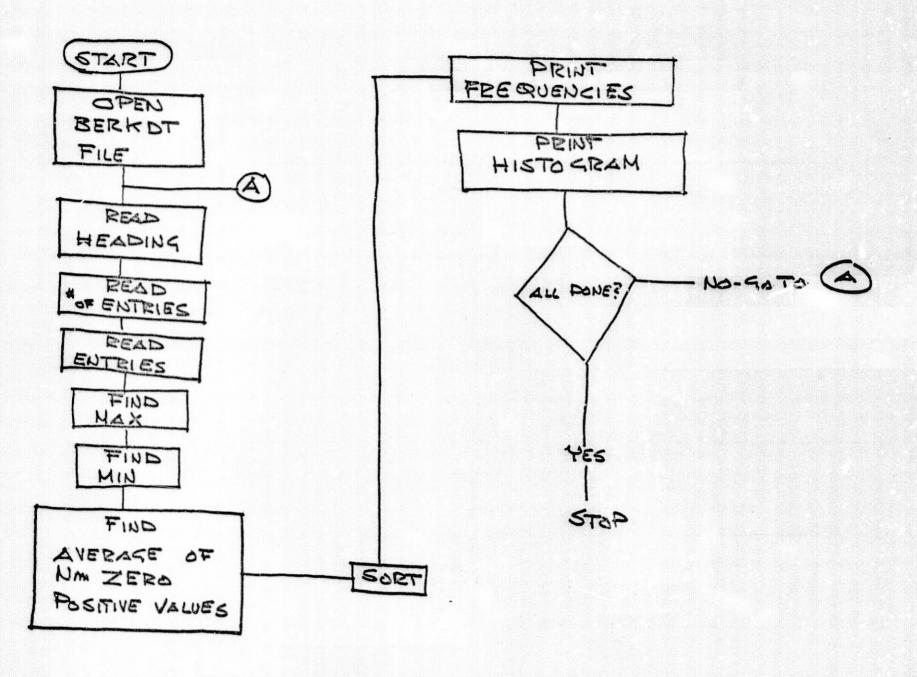


FIGURE TWO! FLOW DIEGRAM OF HISTO - WRITTEN IN BASIC

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OLD FILE NAME -- HISTO
READY
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HISTO

290 NEKT J

LIST

12:09 - 27-AUG-75

```
20 PRINT ; " "
30 FORK=1 TO 10
31 PRINT
32 NEXT K
50 DIM H(50),B(50)
70 FOR L=1 TO 18
100 DIM X(600)
105 A1=0
110 FILES ANE
120 READ #1.AS
121 READ #1,B$
123 PRINT AS;" ";BS
125 READ #1.N
126 FOR I=1 TON
130 READ #1,X(I)
140 NEXT I
150 IF L<13 THEN 940
160 GO SUB 1000
170 GO SUB 1100
180 PRINT "THE RANGE OF VALUES IS ";M1-M2
185 PRINT "THERE ARE "; N-Z1; "NON-NEGATIVE VALUES"
188 A1=A1/(N-Z1)
190 PRINT " THE AVERAGE VALUE IS ";A1
195 PRINT " THIS COUNTS ONLY POSITIVE VALUES IN THE AVERAGE!!!"
200 PRINT "INPUT THE NUMBER OF BINS TO SORT DATA"
201 INPUT N1
205 B(0)=M2
210 FOR J=1 TO N1
215 H(J)=0
216 B(J)=M2+(M1-M2)*J/N1 .
 220 NEXT J
250 FOR I=1 TO N
 255 IF X(I)<0 THEN 300
 260 FOR J=1 TO N1
 270 IF X(I) <= B(J) THEN 280
 275 GOTO 290
 280 IF X(I)>=B(J-1) THEN 285
 281 GOTG 290
 285 H(J)=H(J)+1
```

```
300 NEXT I
 320 PRINT
 322 PRINT
 324 PRINT "LOWER", "NUMBER", "UPPER"
 330 FOR J=0 TO N1-1
 340 PRINT B(J), H(J+1), B(J+1)
 370 NEXT J
 380 FOR K=1 TO 6
 381 PRINT
 382 NEXT K
 390 MARGIN 132
396 FOR T=1 TO 6
 397 PRINT
 398 NEXT T
 405 PRINT,,AS;" ";BS;" HISTOGRAM"
 410 PRINT ,,,"EACH *=1 HOURLY AVERAGE"
428 GO SUB 1300
430 PRINT B(0),">"
440 FOR J=1 TO N1
442 PRINT ,"I";
445 FOR K=0 TO H(J)-1
450 PRINT "*";
455 NEXT K
457 PRINT
460 PRINT B(J),">"
470 NEXT J
480 GOSUB 1300
910 FOR K=1 TO 15
920 PRINT
930 NEXT K
940 NEXT L
999 STOP
1000 REM FIND MAX OF DATA
1005 Z1=0
1010 M1=0 ·
1015 FOR I=1 TO N
1016 IF X(I)<0 THEN 1055
1020 A1=A1+X(I)
1030 IF X(I)>M1 THEN 1050
1040 GOTO 1080
1050 M1=X(I)
1051 GOTO 1080
1055 Z1=Z1+1
1080 NEXT I
1090 PRINT "THE MAXIMUM VALUE OF THE DATA IS ";M1
1099 RETURN
1100 REM FIND MIN OF DATA
1105 M2=1
                                                                                                                        'REPRODUCIBILITY OF THE
1110 FOR I=1 TO N
1115 IF X(I)<0 THEN 1150
                                                                                                                       ORIGINAL PAGE IS POOR
1120 IF X(I)<M2 THEN 1140
1130 GOTO 1150
1140 M2=ABS(X(I))
1150 NEXT I
1160 PRINT "THE MINIMUM OF THE ABS. VALUES OF THE DATA IS ";M2
1199 RETURN
1300 PRINT, "I.... I.... I... I.... I... 
I ";
1301 PRINT"....I....I....I....I.....
1302 RETURN
99999 END
```